GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: July 20, 2004, 17:25:48 ; Search time 335 Seconds
(without alignments)
6684.445 Million cell updates/sec

Title: US-09-975-607A-2
Perfect score: 459
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 3191023 seqs, 2439312756 residues

Total number of hits satisfying chosen parameters: 6382046

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_NA:*
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18: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
19: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	459	100.0	459	9	US-09-975-607A-2	Sequence 2, Appli
2	459	100.0	459	13	US-09-794-919C-2	Sequence 2, Appli
3	436	95.0	486	9	US-09-975-607A-1	Sequence 1, Appli
4	436	95.0	486	13	US-09-794-919C-1	Sequence 1, Appli
5	348	75.8	486	13	US-10-389-821-9	Sequence 9, Appli
6	348	75.8	3163	13	US-10-116-802-291	Sequence 291, App
7	348	75.8	3163	15	US-10-084-817-252	Sequence 252, App
8	348	75.8	3198	13	US-10-058-270A-79	Sequence 79, Appl
9	348	75.8	3198	15	US-10-177-293-58	Sequence 58, Appl
10	348	75.8	3226	9	US-09-954-456-725	Sequence 725, App
11	348	75.8	3226	13	US-10-240-425-1543	Sequence 1543, Ap
12	348	75.8	3285	16	US-10-295-027-109	Sequence 109, App
13	340.4	74.2	636	15	US-10-198-846-8437	Sequence 8437, Ap
14	336	73.2	3368	15	US-10-198-846-10814	Sequence 10814, A
15	281	61.2	465	13	US-10-085-783A-38423	Sequence 38423, A
16	281	61.2	465	16	US-10-242-535A-38423	Sequence 38423, A
17	157.8	34.4	446	15	US-10-198-846-1371	Sequence 1371, Ap
18	138.6	30.2	2112	15	US-10-219-449-3	Sequence 3, Appli
19	138.6	30.2	2154	15	US-10-219-449-1	Sequence 1, Appli
20	138.6	30.2	2302	16	US-10-138-588-39	Sequence 39, Appl
21	138.6	30.2	2485	13	US-10-411-120-18	Sequence 18, Appl
22	138.6	30.2	4908	14	US-10-001-887-33	Sequence 33, Appl
23	137	29.8	1950	16	US-10-138-588-41	Sequence 41, Appl
24	136.2	29.7	665	15	US-10-198-846-8074	Sequence 8074, Ap
25	134.8	29.4	249	15	US-10-198-846-10686	Sequence 10686, A
26	133	29.0	2235	15	US-10-236-055A-29	Sequence 29, Appl
27	133	29.0	2487	15	US-10-037-270-160	Sequence 160, App
28	133	29.0	2487	16	US-10-117-722-160	Sequence 160, App
29	133	29.0	3690	14	US-10-044-090-448	Sequence 448, App
30	133	29.0	3690	15	US-10-084-817-52	Sequence 52, Appl
31	133	29.0	3764	13	US-10-411-120-17	Sequence 17, Appl
32	133	29.0	5572	15	US-10-301-822-38	Sequence 38, Appl
33	128.2	27.9	2235	9	US-09-962-436-308	Sequence 308, App
34	128.2	27.9	2235	15	US-10-171-311-39	Sequence 39, Appl
35	128.2	27.9	2235	15	US-10-101-510-196	Sequence 196, App
36	128.2	27.9	2235	15	US-10-301-822-36	Sequence 36, Appl
c 37	127.4	27.8	475	15	US-10-198-846-1086	Sequence 1086, Ap
38	121.2	26.4	2232	15	US-10-236-055A-31	Sequence 31, Appl
39	90.8	19.8	855	17	US-10-621-787-10	Sequence 10, Appl
40	88.2	19.2	1408	9	US-09-925-301-28	Sequence 28, Appl
41	84.8	18.5	835	15	US-10-198-846-1723	Sequence 1723, Ap
42	83.6	18.2	999	13	US-10-423-582-3	Sequence 3, Appli
43	83	18.1	909	15	US-10-234-000-11	Sequence 11, Appl
44	81.6	17.8	422	13	US-10-085-783A-30659	Sequence 30659, A
45	81.6	17.8	422	16	US-10-242-535A-30659	Sequence 30659, A

ALIGNMENTS

RESULT 1
US-09-975-607A-2
; Sequence 2, Application US/09975607A
; Patent No. US20020115608A1
; GENERAL INFORMATION:
; APPLICANT: Cheah, Kathryn
; APPLICANT: Cheung, Kenneth
; TITLE OF INVENTION: USE OF TRANSGENIC MOUSE CONTAINING A TYPE X COLLAGEN MUTANT
; FILE REFERENCE: 0467/57114-B
; CURRENT APPLICATION NUMBER: US/09/975,607A
; CURRENT FILING DATE: 2001-10-11
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 459
; TYPE: DNA
; ORGANISM: Mouse
US-09-975-607A-2

Query Match 100.0%; Score 459; DB 9; Length 459;
Best Local Similarity 100.0%; Pred. No. 1.9e-153;
Matches 459; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db        301 CGTATGATGAGTACAGCAAAGGCTACCTGGATCAGGCTTCAGGGAGTGCAATCATGGAGC 360

Qy        361 TCACAGAAAATGACCAGGTATGGCTCCAATTGCCCAATGCAGAATCAAACGGCCTCTACT 420
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Qy        421 CCTCTGAGTACGTCCACTCGTCCTTCTCAGGATTCCTAG 459
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RESULT 2
US-09-794-919C-2
; Sequence 2, Application US/09794919C
; Publication No. US20010011073A1
; GENERAL INFORMATION:
;  APPLICANT: Cheah, Kathryn
;  APPLICANT:  Cheung, Kenneth
;  TITLE OF INVENTION: USE OF TRANSGENIC MOUSE CONTAINING A TYPE X COLLAGEN MUTANT
;  FILE REFERENCE: 0467/57114-Z
;  CURRENT APPLICATION NUMBER: US/09/794,919C
;  CURRENT FILING DATE:  2001-02-27
;  NUMBER OF SEQ ID NOS: 5
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
;   LENGTH: 459
;   TYPE: DNA
;   ORGANISM: Mouse
US-09-794-919C-2

  Query Match             100.0%;  Score 459;  DB 13;  Length 459;
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RESULT 3
US-09-975-607A-1
; Sequence 1, Application US/09975607A
; Patent No. US20020115608A1
; GENERAL INFORMATION:
;  APPLICANT: Cheah, Kathryn
;  APPLICANT:  Cheung, Kenneth
;  TITLE OF INVENTION: USE OF TRANSGENIC MOUSE CONTAINING A TYPE X COLLAGEN MUTANT
;  FILE REFERENCE: 0467/57114-B
;  CURRENT APPLICATION NUMBER: US/09/975,607A
;  CURRENT FILING DATE:  2001-10-11
;  NUMBER OF SEQ ID NOS: 5
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
;   LENGTH: 486
;   TYPE: DNA
;   ORGANISM: Mouse
US-09-975-607A-1

  Query Match             95.0%;  Score 436;  DB 9;  Length 486;
  Best Local Similarity   97.2%;  Pred. No. 3.5e-145;
  Matches  459;  Conservative    0;  Mismatches    0;  Indels   13;  Gaps    1;

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Db        421 AACGGCCTCTACTCCTCTGAGTACGTCCACTCGTCCTTCTCAGGATTCCTAG 472


RESULT 4
US-09-794-919C-1
; Sequence 1, Application US/09794919C
; Publication No. US20010011073A1
; GENERAL INFORMATION:
;  APPLICANT: Cheah, Kathryn
;  APPLICANT:  Cheung, Kenneth
;  TITLE OF INVENTION: USE OF TRANSGENIC MOUSE CONTAINING A TYPE X COLLAGEN MUTANT
;  FILE REFERENCE: 0467/57114-Z
;  CURRENT APPLICATION NUMBER: US/09/794,919C
;  CURRENT FILING DATE:  2001-02-27
;  NUMBER OF SEQ ID NOS: 5
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
;   LENGTH: 486
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;   TYPE: DNA
;   ORGANISM: Mouse
US-09-794-919C-1

  Query Match             95.0%;  Score 436;  DB 13;  Length 486;
  Best Local Similarity   97.2%;  Pred. No. 3.5e-145;
  Matches  459;  Conservative    0;  Mismatches    0;  Indels   13;  Gaps    1;

Qy          1 GTCATGCCTGATGGCTTCATAAAGGCAGGCCAGAGGCCCAGGCTTTCTGGGATGCCGCTT 60
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Qy         61 GTCAGTGCTAACCACGGGGTAACAGGTATGCCCGTGTCTGCTTTTACTGTCATTCTCTCT 120
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Qy        121 AAAGCTTACCCAGCAGTAGGTGCCCCCATCCCATTTGATGAGATTCTGTACAATAGGCAG 180
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Db        121 AAAGCTTACCCAGCAGTAGGTGCCCCCATCCCATTTGATGAGATTCTGTACAATAGGCAG 180

Qy        181 CAGCATTACGACCCAAGATCTGGTATCTTTACCTGTAAGATCCCAGGCATATACTATTTC 240
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Qy        241 TCCTACCACGTGCATGTGAAAGGGACTCACGTTTGGGTAGGCCTGTATAAGAACGGC--- 297
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Db        301 CCTACGATGTACACGTATGATGAGTACAGCAAAGGCTACCTGGATCAGGCTTCAGGGAGT 360

Qy        348 GCAATCATGGAGCTCACAGAAAATGACCAGGTATGGCTCCAATTGCCCAATGCAGAATCA 407
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Db        361 GCAATCATGGAGCTCACAGAAAATGACCAGGTATGGCTCCAATTGCCCAATGCAGAATCA 420

Qy        408 AACGGCCTCTACTCCTCTGAGTACGTCCACTCGTCCTTCTCAGGATTCCTAG 459
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Db        421 AACGGCCTCTACTCCTCTGAGTACGTCCACTCGTCCTTCTCAGGATTCCTAG 472


RESULT 5
US-10-389-821-9
; Sequence 9, Application US/10389821
; Publication No. US20040058348A1
; GENERAL INFORMATION:
;  APPLICANT: Prochon Biotech, Ltd.
;  APPLICANT:  Yeda Research and Development Co. Ltd.
;  APPLICANT:  Avner, Yayon
;  APPLICANT:  Bogin, Oren
;  APPLICANT:  Peretz, Moshe
;  APPLICANT:  Burstein, Yigal
;  TITLE OF INVENTION: HIGH LEVEL EXPRESSION OF HETEROLOGOUS PROTEINS
;  FILE REFERENCE: 138529 IL
;  CURRENT APPLICATION NUMBER: US/10/389,821
;  CURRENT FILING DATE:  2003-03-18
;  PRIOR APPLICATION NUMBER: IL 138529
;  PRIOR FILING DATE: 2000-09-17
;  NUMBER OF SEQ ID NOS: 24
; SEQ ID NO 9
;   LENGTH: 486
;   TYPE: DNA
;   ORGANISM: Homo sapien
;  PUBLICATION INFORMATION:
;   DATABASE ACCESSION NUMBER: NCBI/NM_000493.2|
;   DATABASE ENTRY DATE: 2002-01-19
;   RELEVANT RESIDUES: (1)..(486)
US-10-389-821-9

  Query Match             75.8%;  Score 348;  DB 13;  Length 486;
  Best Local Similarity   85.6%;  Pred. No. 1.2e-113;
  Matches  404;  Conservative    0;  Mismatches   55;  Indels   13;  Gaps    1;

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Qy         61 GTCAGTGCTAACCACGGGGTAACAGGTATGCCCGTGTCTGCTTTTACTGTCATTCTCTCT 120
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Qy        121 AAAGCTTACCCAGCAGTAGGTGCCCCCATCCCATTTGATGAGATTCTGTACAATAGGCAG 180
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Db        121 AAAGCTTACCCAGCAATAGGAACTCCCATACCATTTGATAAAATTTTGTATAACAGGCAA 180

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Qy        241 TCCTACCACGTGCATGTGAAAGGGACTCACGTTTGGGTAGGCCTGTATAAGAACGGC--- 297
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Qy        298 ----------ACACGTATGATGAGTACAGCAAAGGCTACCTGGATCAGGCTTCAGGGAGT 347
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Db        301 CCTGTAATGTACACCTATGATGAATACACCAAAGGCTACCTGGATCAGGCTTCAGGGAGT 360

Qy        348 GCAATCATGGAGCTCACAGAAAATGACCAGGTATGGCTCCAATTGCCCAATGCAGAATCA 407
              ||  |||||  ||  ||||||||||||||||||||  ||||||||  |  ||||||||  ||  |||
Db        361 GCCATCATCGATCTCACAGAAAATGACCAGGTGTGGCTCCAGCTTCCCAATGCCGAGTCA 420

Qy        408 AACGGCCTCTACTCCTCTGAGTACGTCCACTCGTCCTTCTCAGGATTCCTAG 459
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Db        421 AATGGCCTATACTCCTCTGAGTATGTCCACTCCTCTTTCTCAGGATTCCTAG 472


RESULT 6
US-10-116-802-291
; Sequence 291, Application US/10116802
; Publication No. US20030065157A1
; GENERAL INFORMATION:
;  APPLICANT: Amy Lasek
;  TITLE OF INVENTION: GENES EXPRESSED IN LUNG CANCER
;  FILE REFERENCE: PA-0045 US
;  CURRENT APPLICATION NUMBER: US/10/116,802
;  CURRENT FILING DATE:  2002-04-04
;  PRIOR APPLICATION NUMBER: 60/281,593
;  PRIOR FILING DATE: 2001-04-04
;  NUMBER OF SEQ ID NOS: 519
;  SOFTWARE: PERL Program
; SEQ ID NO 291
;   LENGTH: 3163
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   OTHER INFORMATION: Incyte ID No: 982520.1
;   NAME/KEY: unsure
;   LOCATION: 806
;   OTHER INFORMATION: a, t, c, g, or other
US-10-116-802-291

  Query Match             75.8%;  Score 348;  DB 13;  Length 3163;
  Best Local Similarity   85.6%;  Pred. No. 3e-113;
  Matches  404;  Conservative    0;  Mismatches   55;  Indels   13;  Gaps    1;

Qy          1 GTCATGCCTGATGGCTTCATAAAGGCAGGCCAGAGGCCCAGGCTTTCTGGGATGCCGCTT 60
              |||||||||||  ||  ||  ||||||||||||||  ||||||||  ||||||||||  ||  |||
Db       1659 GTCATGCCTGAGGGTTTTATAAAGGCAGGCCAAAGGCCCAGTCTTTCTGGGACCCCTCTT 1718

Qy         61 GTCAGTGCTAACCACGGGGTAACAGGTATGCCCGTGTCTGCTTTTACTGTCATTCTCTCT 120
              ||  |||||  |||||  ||||||||||||  |||||  ||||||||||||||||||  ||||||||
Db       1719 GTTAGTGCCAACCAGGGGGTAACAGGAATGCCTGTGTCTGCTTTTACTGTTATTCTCTCC 1778

Qy        121 AAAGCTTACCCAGCAGTAGGTGCCCCCATCCCATTTGATGAGATTCTGTACAATAGGCAG 180
              ||||||||||||||  ||||  |  |||||  |||||||||  |  |||  ||||  ||  |||||
```

```
Db       1779 AAAGCTTACCCAGCAATAGGAACTCCCATACCATTTGATAAAATTTTGTATAACAGGCAA 1838

Qy        181 CAGCATTACGACCCAAGATCTGGTATCTTTACCTGTAAGATCCCAGGCATATACTATTTC 240

Db       1839 CAGCATTATGACCCAAGGACTGGAATCTTTACTTGTCAGATACCAGGAATATACTATTTT 1898

Qy        241 TCCTACCACGTGCATGTGAAAGGGACTCACGTTTGGGTAGGCCTGTATAAGAACGGC--- 297

Db       1899 TCATACCACGTGCATGTGAAAGGGACTCATGTTTGGGTAGGCCTGTATAAGAATGGCACC 1958

Qy        298 ----------ACACGTATGATGAGTACAGCAAAGGCTACCTGGATCAGGCTTCAGGGAGT 347

Db       1959 CCTGTAATGTACACCTATGATGAATACACCAAAGGCTACCTGGATCAGGCTTCAGGGAGT 2018

Qy        348 GCAATCATGGAGCTCACAGAAAATGACCAGGTATGGCTCCAATTGCCCAATGCAGAATCA 407

Db       2019 GCCATCATCGATCTCACAGAAAATGACCAGGTGTGGCTCCAGCTTCCCAATGCCGAGTCA 2078

Qy        408 AACGGCCTCTACTCCTCTGAGTACGTCCACTCGTCCTTCTCAGGATTCCTAG 459

Db       2079 AATGGCCTATACTCCTCTGAGTATGTCCACTCCTCTTTCTCAGGATTCCTAG 2130
```

RESULT 7
US-10-084-817-252
; Sequence 252, Application US/10084817
; Publication No. US20030119009A1
; GENERAL INFORMATION:
; APPLICANT: Susan Stuart
; APPLICANT: Jed G. Nuchtern
; APPLICANT: Sharon E. Plon
; APPLICANT: Jason M. Shohet
; TITLE OF INVENTION: GENES REGULATED BY MYCN ACTIVATION
; FILE REFERENCE: PA-0046 US
; CURRENT APPLICATION NUMBER: US/10/084,817
; CURRENT FILING DATE: 2002-02-25
; PRIOR APPLICATION NUMBER: 60/270,784
; PRIOR FILING DATE: 2001-02-23
; NUMBER OF SEQ ID NOS: 365
; SOFTWARE: PERL Program
; SEQ ID NO 252
; LENGTH: 3163
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. US20030119009A1 982520.1
; NAME/KEY: unsure
; LOCATION: 806
; OTHER INFORMATION: a, t, c, g, or other
US-10-084-817-252

Query Match 75.8%; Score 348; DB 15; Length 3163;
Best Local Similarity 85.6%; Pred. No. 3e-113;
Matches 404; Conservative 0; Mismatches 55; Indels 13; Gaps 1;

```
Qy          1 GTCATGCCTGATGGCTTCATAAAGGCAGGCCAGAGGCCCAGGCTTTCTGGGATGCCGCTT 60

Db       1659 GTCATGCCTGAGGGTTTTATAAAGGCAGGCCAAAGGCCCAGTCTTTCTGGGACCCCTCTT 1718

Qy         61 GTCAGTGCTAACCACGGGGTAACAGGTATGCCCGTGTCTGCTTTTACTGTCATTCTCTCT 120

Db       1719 GTTAGTGCCAACCAGGGGGTAACAGGAATGCCTGTGTCTGCTTTTACTGTTATTCTCTCC 1778

Qy        121 AAAGCTTACCCAGCAGTAGGTGCCCCCATCCCATTTGATGAGATTCTGTACAATAGGCAG 180

Db       1779 AAAGCTTACCCAGCAATAGGAACTCCCATACCATTTGATAAAATTTTGTATAACAGGCAA 1838

Qy        181 CAGCATTACGACCCAAGATCTGGTATCTTTACCTGTAAGATCCCAGGCATATACTATTTC 240

Db       1839 CAGCATTATGACCCAAGGACTGGAATCTTTACTTGTCAGATACCAGGAATATACTATTTT 1898

Qy        241 TCCTACCACGTGCATGTGAAAGGGACTCACGTTTGGGTAGGCCTGTATAAGAACGGC--- 297

Db       1899 TCATACCACGTGCATGTGAAAGGGACTCATGTTTGGGTAGGCCTGTATAAGAATGGCACC 1958

Qy        298 ----------ACACGTATGATGAGTACAGCAAAGGCTACCTGGATCAGGCTTCAGGGAGT 347

Db       1959 CCTGTAATGTACACCTATGATGAATACACCAAAGGCTACCTGGATCAGGCTTCAGGGAGT 2018

Qy        348 GCAATCATGGAGCTCACAGAAAATGACCAGGTATGGCTCCAATTGCCCAATGCAGAATCA 407

Db       2019 GCCATCATCGATCTCACAGAAAATGACCAGGTGTGGCTCCAGCTTCCCAATGCCGAGTCA 2078

Qy        408 AACGGCCTCTACTCCTCTGAGTACGTCCACTCGTCCTTCTCAGGATTCCTAG 459

Db       2079 AATGGCCTATACTCCTCTGAGTATGTCCACTCCTCTTTCTCAGGATTCCTAG 2130
```

RESULT 8
US-10-058-270A-79
; Sequence 79, Application US/10058270A
; Publication No. US20040029114A1
; GENERAL INFORMATION:
; APPLICANT: Mack, David H.
; APPLICANT: Gish, Kurt C.
; APPLICANT: Afar, Daniel
; APPLICANT: Eos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of Diagnosis of Breast Cancer, Compositions and
; TITLE OF INVENTION: Methods of Screening for Modulators of Breast Cancer
; FILE REFERENCE: 018501-005210US
; CURRENT APPLICATION NUMBER: US/10/058,270A
; CURRENT FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: US 60/263,965
; PRIOR FILING DATE: 2001-01-24
; PRIOR APPLICATION NUMBER: US 60/265,928
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 09/829,472
; PRIOR FILING DATE: 2001-04-09
; PRIOR APPLICATION NUMBER: US 60/282,698
; PRIOR FILING DATE: 2001-04-09
; PRIOR APPLICATION NUMBER: US 60/288,590
; PRIOR FILING DATE: 2001-05-04
; PRIOR APPLICATION NUMBER: US 60/294,443
; PRIOR FILING DATE: 2001-05-29
; NUMBER OF SEQ ID NOS: 141
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 79
; LENGTH: 3198
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-058-270A-79

Query Match 75.8%; Score 348; DB 13; Length 3198;
Best Local Similarity 85.6%; Pred. No. 3e-113;
Matches 404; Conservative 0; Mismatches 55; Indels 13; Gaps 1;

```
Qy          1 GTCATGCCTGATGGCTTCATAAAGGCAGGCCAGAGGCCCAGGCTTTCTGGGATGCCGCTT 60

Db       1558 GTCATGCCTGAGGGTTTTATAAAGGCAGGCCAAAGGCCCAGTCTTTCTGGGACCCCTCTT 1617

Qy         61 GTCAGTGCTAACCACGGGGTAACAGGTATGCCCGTGTCTGCTTTTACTGTCATTCTCTCT 120

Db       1618 GTTAGTGCCAACCAGGGGGTAACAGGAATGCCTGTGTCTGCTTTTACTGTTATTCTCTCC 1677

Qy        121 AAAGCTTACCCAGCAGTAGGTGCCCCCATCCCATTTGATGAGATTCTGTACAATAGGCAG 180

Db       1678 AAAGCTTACCCAGCAATAGGAACTCCCATACCATTTGATAAAATTTTGTATAACAGGCAA 1737

Qy        181 CAGCATTACGACCCAAGATCTGGTATCTTTACCTGTAAGATCCCAGGCATATACTATTTC 240

Db       1738 CAGCATTATGACCCAAGGACTGGAATCTTTACTTGTCAGATACCAGGAATATACTATTTT 1797

Qy        241 TCCTACCACGTGCATGTGAAAGGGACTCACGTTTGGGTAGGCCTGTATAAGAACGGC--- 297

Db       1798 TCATACCACGTGCATGTGAAAGGGACTCATGTTTGGGTAGGCCTGTATAAGAATGGCACC 1857
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Qy        298 ----------ACACGTATGATGAGTACAGCAAAGGCTACCTGGATCAGGCTTCAGGGAGT 347
                         |||| |||||||| |||| |||||||||||||||||||||||||||||
Db       1858 CCTGTAATGTACACCTATGATGAATACACCAAAGGCTACCTGGATCAGGCTTCAGGGAGT 1917

Qy        348 GCAATCATGGAGCTCACAGAAAATGACCAGGTATGGCTCCAATTGCCCAATGCAGAATCA 407
              || ||||| || |||||||||||||||||||||| |||||||  | ||||||||  || |||
Db       1918 GCCATCATCGATCTCACAGAAAATGACCAGGTGTGGCTCCAGCTTCCCAATGCCGAGTCA 1977

Qy        408 AACGGCCTCTACTCCTCTGAGTACGTCCACTCGTCCTTCTCAGGATTCCTAG 459
              || ||||| ||||||||||||||| |||||||| || ||||||||||||||||
Db       1978 AATGGCCTATACTCCTCTGAGTATGTCCACTCCTCTTTCTCAGGATTCCTAG 2029


RESULT 9
US-10-177-293-58
; Sequence 58, Application US/10177293
; Publication No. US20030124128A1
; GENERAL INFORMATION:
;  APPLICANT: Lillie, James
;  APPLICANT:  Glatt, Karen
;  APPLICANT:  Zhao, Xumei
;  APPLICANT:  Gannavarpu, Manjula
;  APPLICANT:  Kamatkar, Shubhangi
;  APPLICANT:  Mertens, Maureen
;  APPLICANT:  Myer, Vic
;  APPLICANT:  Wang, Youzhen
;  APPLICANT:  Xu, Yongyao
;  APPLICANT:  Hoersch, Sebastian
;  APPLICANT:  Monahan, John
;  APPLICANT:  Meyers, Rachel E.
;  APPLICANT:  Bast Jr., Robert C.
;  APPLICANT:  Hortobagyi, Gabriel N.
;  APPLICANT:  Pusztai, Lajos
;  APPLICANT:  Meric, Funda
;  APPLICANT:  Sahin, Aysegul
;  APPLICANT:  Mills, Gordon B.
;  TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT,
;  TITLE OF INVENTION:  PREVENTION, AND THERAPY OF BREAST CANCER
;  FILE REFERENCE: MRI-038
;  CURRENT APPLICATION NUMBER: US/10/177,293
;  CURRENT FILING DATE:  2002-06-21
;  PRIOR APPLICATION NUMBER: US 60/299,887
;  PRIOR FILING DATE: 2001-06-21
;  PRIOR APPLICATION NUMBER: US 60/301,572
;  PRIOR FILING DATE: 2001-06-27
;  PRIOR APPLICATION NUMBER: US 60/306,501
;  PRIOR FILING DATE: 2001-07-18
;  PRIOR APPLICATION NUMBER: US 60/325,002
;  PRIOR FILING DATE: 2001-09-25
;  PRIOR APPLICATION NUMBER: US 60/362,585
;  PRIOR FILING DATE: 2002-03-05
;  PRIOR APPLICATION NUMBER: US 60/xxx,xxx
;  PRIOR FILING DATE: 2002-05-14
;  NUMBER OF SEQ ID NOS: 506
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 58
;   LENGTH: 3198
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-10-177-293-58

  Query Match             75.8%;  Score 348;  DB 15;  Length 3198;
  Best Local Similarity   85.6%;  Pred. No. 3e-113;
  Matches  404;  Conservative    0;  Mismatches   55;  Indels   13;  Gaps    1;

Qy          1 GTCATGCCTGATGGCTTCATAAAGGCAGGCCAGAGGCCCAGGCTTTCTGGGATGCCGCTT 60
              |||||||||||| || || |||||||||||||| |||||||| |||||||||  || |||
Db       1558 GTCATGCCTGAGGGTTTTATAAAGGCAGGCCAAAGGCCCAGTCTTTCTGGGACCCCTCTT 1617

Qy         61 GTCAGTGCTAACCACGGGGTAACAGGTATGCCCGTGTCTGCTTTTACTGTCATTCTCTCT 120
              || ||||| ||||| |||||||||||| ||||| |||||||||||||||| ||||||||
Db       1618 GTTAGTGCCAACCAGGGGGTAACAGGAATGCCTGTGTCTGCTTTTACTGTTATTCTCTCC 1677
```

```
Qy        121 AAAGCTTACCCAGCAGTAGGTGCCCCCATCCCATTTGATGAGATTCTGTACAATAGGCAG 180
              |||||||||||||||| |||| | ||||| ||||||||| | ||| |||| || |||||
Db       1678 AAAGCTTACCCAGCAATAGGAACTCCCATACCATTTGATAAAATTTTGTATAACAGGCAA 1737

Qy        181 CAGCATTACGACCCAAGATCTGGTATCTTTACCTGTAAGATCCCAGGCATATACTATTTC 240
              |||||||| |||||||| |||| |||||||| ||| |||| ||||| ||||||||||
Db       1738 CAGCATTATGACCCAAGGACTGGAATCTTTACTTGTCAGATACCAGGAATATACTATTTT 1797

Qy        241 TCCTACCACGTGCATGTGAAAGGGACTCACGTTTGGGTAGGCCTGTATAAGAACGGC--- 297
              || |||||||||||||||||||||||| |||||||||||||||||||||| |||
Db       1798 TCATACCACGTGCATGTGAAAGGGACTCATGTTTGGGTAGGCCTGTATAAGAATGGCACC 1857

Qy        298 ----------ACACGTATGATGAGTACAGCAAAGGCTACCTGGATCAGGCTTCAGGGAGT 347
                         |||| |||||||| |||| |||||||||||||||||||||||||||||
Db       1858 CCTGTAATGTACACCTATGATGAATACACCAAAGGCTACCTGGATCAGGCTTCAGGGAGT 1917

Qy        348 GCAATCATGGAGCTCACAGAAAATGACCAGGTATGGCTCCAATTGCCCAATGCAGAATCA 407
              || ||||| || |||||||||||||||||||||| |||||||  | ||||||||  || |||
Db       1918 GCCATCATCGATCTCACAGAAAATGACCAGGTGTGGCTCCAGCTTCCCAATGCCGAGTCA 1977

Qy        408 AACGGCCTCTACTCCTCTGAGTACGTCCACTCGTCCTTCTCAGGATTCCTAG 459
              || ||||| ||||||||||||||| |||||||| || ||||||||||||||||
Db       1978 AATGGCCTATACTCCTCTGAGTATGTCCACTCCTCTTTCTCAGGATTCCTAG 2029


RESULT 10
US-09-954-456-725
; Sequence 725, Application US/09954456
; Patent No. US20020115057A1
; GENERAL INFORMATION:
;  APPLICANT: Young, Paul
;  TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using Cance
;  TITLE OF INVENTION:  Sets
;  FILE REFERENCE: 689290-76
;  CURRENT APPLICATION NUMBER: US/09/954,456
;  CURRENT FILING DATE:  2001-09-18
;  PRIOR APPLICATION NUMBER: US/60/233,617
;  PRIOR FILING DATE: 2000-09-18
;  PRIOR APPLICATION NUMBER: US/60/234,052
;  PRIOR FILING DATE: 2000-09-20
;  PRIOR APPLICATION NUMBER: US/60/234,923
;  PRIOR FILING DATE: 2000-09-25
;  PRIOR APPLICATION NUMBER: US/60/235,134
;  PRIOR FILING DATE: 2000-09-25
;  PRIOR APPLICATION NUMBER: US/60/235,637
;  PRIOR FILING DATE: 2000-09-26
;  PRIOR APPLICATION NUMBER: US/60/235,638
;  PRIOR FILING DATE: 2000-09-26
;  PRIOR APPLICATION NUMBER: US/60/235,711
;  PRIOR FILING DATE: 2000-09-27
;  PRIOR APPLICATION NUMBER: US/60/235,720
;  PRIOR FILING DATE: 2000-09-27
;  PRIOR APPLICATION NUMBER: US/60/235,840
;  PRIOR FILING DATE: 2000-09-27
;  PRIOR APPLICATION NUMBER: US/60/235,863
;  PRIOR FILING DATE: 2000-09-27
;  NUMBER OF SEQ ID NOS: 2276
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 725
;   LENGTH: 3226
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-954-456-725

  Query Match             75.8%;  Score 348;  DB 9;  Length 3226;
  Best Local Similarity   85.6%;  Pred. No. 3e-113;
  Matches  404;  Conservative    0;  Mismatches   55;  Indels   13;  Gaps    1;

Qy          1 GTCATGCCTGATGGCTTCATAAAGGCAGGCCAGAGGCCCAGGCTTTCTGGGATGCCGCTT 60
              |||||||||||| || || |||||||||||||| |||||||| |||||||||  || |||
Db       1573 GTCATGCCTGAGGGTTTTATAAAGGCAGGCCAAAGGCCCAGTCTTTCTGGGACCCCTCTT 1632
```

```
Qy          61 GTCAGTGCTAACCACGGGGGTAACAGGTATGCCCGTGTCTGCTTTTACTGTCATTCTCTCT 120
               || ||||| ||||| |||||||||||| ||||| ||||||||||||||||| ||||||||
Db        1633 GTTAGTGCCAACCAGGGGGTAACAGGAATGCCTGTGTCTGCTTTTACTGTTATTCTCTCC 1692

Qy         121 AAAGCTTACCCAGCAGTAGGTGCCCCCATCCCATTTGATGAGATTCTGTACAATAGGCAG 180
               |||||||||||||||| |||| | ||||| ||||||||| | ||| |||| || |||||
Db        1693 AAAGCTTACCCAGCAATAGGAACTCCCATACCATTTGATAAAATTTTGTATAACAGGCAA 1752

Qy         181 CAGCATTACGACCCAAGATCTGGTATCTTTACCTGTAAGATCCCAGGCATATACTATTTC 240
               |||||||| |||||||| |||| |||||||| ||| |||| ||||| ||||||||||
Db        1753 CAGCATTATGACCCAAGGACTGGAATCTTTACTTGTCAGATACCAGGAATATACTATTTT 1812

Qy         241 TCCTACCACGTGCATGTGAAAGGGACTCACGTTTGGGTAGGCCTGTATAAGAACGGC--- 297
               || |||||||||||||||||||||||||| |||||||||||||||||||||||| |||
Db        1813 TCATACCACGTGCATGTGAAAGGGACTCATGTTTGGGTAGGCCTGTATAAGAATGGCACC 1872

Qy         298 ----------ACACGTATGATGAGTACAGCAAAGGCTACCTGGATCAGGCTTCAGGGAGT 347
                        |||| |||||||| |||| ||||||||||||||||||||||||||||||
Db        1873 CCTGTAATGTACACCTATGATGAATACACCAAAGGCTACCTGGATCAGGCTTCAGGGAGT 1932

Qy         348 GCAATCATGGAGCTCACAGAAAATGACCAGGTATGGCTCCAATTGCCCAATGCAGAATCA 407
               || ||||| || |||||||||||||||||||| |||||||| | |||||||| || |||
Db        1933 GCCATCATCGATCTCACAGAAAATGACCAGGTGTGGCTCCAGCTTCCCAATGCCGAGTCA 1992

Qy         408 AACGGCCTCTACTCCTCTGAGTACGTCCACTCGTCCTTCTCAGGATTCCTAG 459
               || ||||| |||||||||||||| |||||||| || ||||||||||||||||
Db        1993 AATGGCCTATACTCCTCTGAGTATGTCCACTCCTCTTTCTCAGGATTCCTAG 2044
```

RESULT 11
US-10-240-425-1543
; Sequence 1543, Application US/10240425
; Publication No. US20040033502A1
; GENERAL INFORMATION:
; APPLICANT: Williams, Amanda
; APPLICANT: Boland, Joseph F.
; APPLICANT: Lord, Reginald V.
; APPLICANT: Alvarez, Chris
; APPLICANT: Wetzel, Jon C.
; APPLICANT: Scherf, Uwe
; APPLICANT: Vockley, Joseph G.
; TITLE OF INVENTION: Gene Expression Profiles in Esophageal Tissue
; FILE REFERENCE: 44921-5026
; CURRENT APPLICATION NUMBER: US/10/240,425
; CURRENT FILING DATE: 2002-09-30
; PRIOR APPLICATION NUMBER: PCT/US01/09847
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: US 60/193,446
; PRIOR FILING DATE: 2000-03-31
; NUMBER OF SEQ ID NOS: 1588
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1543
; LENGTH: 3226
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. US20040033502A1 X60382
US-10-240-425-1543

Query Match 75.8%; Score 348; DB 13; Length 3226;
Best Local Similarity 85.6%; Pred. No. 3e-113;
Matches 404; Conservative 0; Mismatches 55; Indels 13; Gaps 1;

```
Qy           1 GTCATGCCTGATGGCTTCATAAAGGCAGGCCAGAGGCCCAGGCTTTCTGGGATGCCGCTT 60
               |||||||||| || || |||||||||||||| |||||||| |||||||||  || |||
Db        1573 GTCATGCCTGAGGGTTTTATAAAGGCAGGCCAAAGGCCCAGTCTTTCTGGGACCCCTCTT 1632

Qy          61 GTCAGTGCTAACCACGGGGTAACAGGTATGCCCGTGTCTGCTTTTACTGTCATTCTCTCT 120
               || ||||| ||||| |||||||||||| ||||| ||||||||||||||||| ||||||||
Db        1633 GTTAGTGCCAACCAGGGGGTAACAGGAATGCCTGTGTCTGCTTTTACTGTTATTCTCTCC 1692

Qy         121 AAAGCTTACCCAGCAGTAGGTGCCCCCATCCCATTTGATGAGATTCTGTACAATAGGCAG 180
               |||||||||||||||| |||| | ||||| ||||||||| | ||| |||| || |||||
```

```
Db        1693 AAAGCTTACCCAGCAATAGGAACTCCCATACCATTTGATAAAATTTTGTATAACAGGCAA 1752

Qy         181 CAGCATTACGACCCAAGATCTGGTATCTTTACCTGTAAGATCCCAGGCATATACTATTTC 240
               |||||||| |||||||| |||| |||||||| ||| |||| ||||| ||||||||||
Db        1753 CAGCATTATGACCCAAGGACTGGAATCTTTACTTGTCAGATACCAGGAATATACTATTTT 1812

Qy         241 TCCTACCACGTGCATGTGAAAGGGACTCACGTTTGGGTAGGCCTGTATAAGAACGGC--- 297
               || |||||||||||||||||||||||||| |||||||||||||||||||||||| |||
Db        1813 TCATACCACGTGCATGTGAAAGGGACTCATGTTTGGGTAGGCCTGTATAAGAATGGCACC 1872

Qy         298 ----------ACACGTATGATGAGTACAGCAAAGGCTACCTGGATCAGGCTTCAGGGAGT 347
                        |||| |||||||| |||| ||||||||||||||||||||||||||||||
Db        1873 CCTGTAATGTACACCTATGATGAATACACCAAAGGCTACCTGGATCAGGCTTCAGGGAGT 1932

Qy         348 GCAATCATGGAGCTCACAGAAAATGACCAGGTATGGCTCCAATTGCCCAATGCAGAATCA 407
               || ||||| || |||||||||||||||||||| |||||||| | |||||||| || |||
Db        1933 GCCATCATCGATCTCACAGAAAATGACCAGGTGTGGCTCCAGCTTCCCAATGCCGAGTCA 1992

Qy         408 AACGGCCTCTACTCCTCTGAGTACGTCCACTCGTCCTTCTCAGGATTCCTAG 459
               || ||||| |||||||||||||| |||||||| || ||||||||||||||||
Db        1993 AATGGCCTATACTCCTCTGAGTATGTCCACTCCTCTTTCTCAGGATTCCTAG 2044
```

RESULT 12
US-10-295-027-109
; Sequence 109, Application US/10295027
; Publication No. US20030232350A1
; GENERAL INFORMATION:
; APPLICANT: Afar, Daniel
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsberg, Wendy M.
; APPLICANT: Gish, Kurt C.
; APPLICANT: Glynne, Richard
; APPLICANT: Hevezi, Peter A.
; APPLICANT: Mack, David H.
; APPLICANT: Murray, Richard
; APPLICANT: Watson, Susan R.
; APPLICANT: Eos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and
; TITLE OF INVENTION: Methods of Screening for Modulators of Cancer
; FILE REFERENCE: 018501-012500US
; CURRENT APPLICATION NUMBER: US/10/295,027
; CURRENT FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: US 09/663,733
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/350,666
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 60/335,394
; PRIOR FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: US 60/332,464
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: US 60/334,393
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: US 60/340,376
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: US 60/347,211
; PRIOR FILING DATE: 2002-01-08
; PRIOR APPLICATION NUMBER: US 60/347,349
; PRIOR FILING DATE: 2002-01-10
; PRIOR APPLICATION NUMBER: US 60/355,250
; PRIOR FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: US 60/356,714
; PRIOR FILING DATE: 2002-02-13
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1386
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 109
; LENGTH: 3285
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-295-027-109

Query Match 75.8%; Score 348; DB 16; Length 3285;

```
  Best Local Similarity   85.6%;  Pred. No. 3e-113;
  Matches  404;  Conservative    0;  Mismatches   55;  Indels   13;  Gaps    1;

Qy          1 GTCATGCCTGATGGCTTCATAAAGGCAGGCCAGAGGCCCAGGCTTTCTGGGATGCCGCTT 60
              |||||||||||  ||  || ||||||||||||||| ||||||| |||||||||  || |||
Db       1654 GTCATGCCTGAGGGTTTTATAAAGGCAGGCCAAAGGCCCAGTCTTTCTGGGACCCCTCTT 1713

Qy         61 GTCAGTGCTAACCACGGGGGTAACAGGTATGCCCGTGTCTGCTTTTACTGTCATTCTCTCT 120
              || ||||| ||||| |||||||||||| ||||| ||||||||||||||||||| ||||||||
Db       1714 GTTAGTGCCAACCAGGGGGTAACAGGAATGCCTGTGTCTGCTTTTACTGTTATTCTCTCC 1773

Qy        121 AAAGCTTACCCAGCAGTAGGTGCCCCCATCCCATTTGATGAGATTCTGTACAATAGGCAG 180
              ||||||||||||||| ||||  | ||||| ||||||||| | ||| |||| || |||||
Db       1774 AAAGCTTACCCAGCAATAGGAACTCCCATACCATTTGATAAAATTTTGTATAACAGGCAA 1833

Qy        181 CAGCATTACGACCCAAGATCTGGTATCTTTACCTGTAAGATCCCAGGCATATACTATTTC 240
              ||||||| ||||||||  |||| |||||||| ||| |||| ||||| ||||||||||
Db       1834 CAGCATTATGACCCAAGGACTGGAATCTTTACTTGTCAGATACCAGGAATATACTATTTT 1893

Qy        241 TCCTACCACGTGCATGTGAAAGGGACTCACGTTTGGGTAGGCCTGTATAAGAACGGC--- 297
              || ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1894 TCATACCACGTGCATGTGAAAGGGACTCATGTTTGGGTAGGCCTGTATAAGAATGGCACC 1953

Qy        298 ----------ACACGTATGATGAGTACAGCAAAGGCTACCTGGATCAGGCTTCAGGGAGT 347
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Db       1954 CCTGTAATGTACACCTATGATGAATACACCAAAGGCTACCTGGATCAGGCTTCAGGGAGT 2013

Qy        348 GCAATCATGGAGCTCACAGAAAATGACCAGGTATGGCTCCAATTGCCCAATGCAGAATCA 407
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Qy        408 AACGGCCTCTACTCCTCTGAGTACGTCCACTCGTCCTTCTCAGGATTCCTAG 459
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Db       2074 AATGGCCTATACTCCTCTGAGTATGTCCACTCCTCTTTCTCAGGATTCCTAG 2125


RESULT 13
US-10-198-846-8437
; Sequence 8437, Application US/10198846
; Publication No. US20030099974A1
; GENERAL INFORMATION:
;  APPLICANT: Lillie, James
;  APPLICANT:  Xu, Yongyao
;  APPLICANT:  Wang, Youzhen
;  APPLICANT:  Steinmann, Kathleen
;  TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS
;  TITLE OF INVENTION:  FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
;  TITLE OF INVENTION:  THERAPY OF BREAST CANCER
;  FILE REFERENCE: MRI-049
;  CURRENT APPLICATION NUMBER: US/10/198,846
;  CURRENT FILING DATE:  2002-07-18
;  PRIOR APPLICATION NUMBER: 60/306,220
;  PRIOR FILING DATE: 2001-07-18
;  NUMBER OF SEQ ID NOS: 14084
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8437
;   LENGTH: 636
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: 7, 592, 595, 610, 617, 619, 621
;   OTHER INFORMATION: n = A,T,C or G
US-10-198-846-8437

  Query Match             74.2%;  Score 340.4;  DB 15;  Length 636;
  Best Local Similarity   84.1%;  Pred. No. 7e-111;
  Matches  397;  Conservative    0;  Mismatches   62;  Indels   13;  Gaps    1;

Qy          1 GTCATGCCTGATGGCTTCATAAAGGCAGGCCAGAGGCCCAGGCTTTCTGGGATGCCGCTT 60
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Db        159 GTCATGCCTGAGGGTTTTATAAAGGCAGGCCAAAGGCCCAGTCTTTCTGGGACCCCTCTT 218

Qy         61 GTCAGTGCTAACCACGGGGGTAACAGGTATGCCCGTGTCTGCTTTTACTGTCATTCTCTCT 120
              || ||||| ||||| |||||||||||| ||||| ||||||||||||||||||| ||||||||
Db        219 GTTAGTGCCAACCAGGGGGTAACAGGAATGCCTGTGTCTGCTTTTACTGTTATTCTCTCC 278

Qy        121 AAAGCTTACCCAGCAGTAGGTGCCCCCATCCCATTTGATGAGATTCTGTACAATAGGCAG 180
              ||||||||||||||| ||||  | ||||| ||||||||| | ||| |||| || |||||
Db        279 AAAGCTTACCCAGCAATAGGAACTCCCATACCATTTGATAAAATTTTGTATAACAGGCAA 338

Qy        181 CAGCATTACGACCCAAGATCTGGTATCTTTACCTGTAAGATCCCAGGCATATACTATTTC 240
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Db        339 CAGCATTATGACCCAAGGACTGGAATCTTTACTTGTCAGATACCAGGAATATACTATTTT 398

Qy        241 TCCTACCACGTGCATGTGAAAGGGACTCACGTTTGGGTAGGCCTGTATAAGAACGGC--- 297
              || ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        399 TCATACCACGTGCATGTGAAAGGGACTCATGTTTGGGTAGGCCTGTATAAGAATGGCACC 458

Qy        298 ----------ACACGTATGATGAGTACAGCAAAGGCTACCTGGATCAGGCTTCAGGGAGT 347
                       |||| ||||||| |||| ||||||||||||||||||||||||||||||||
Db        459 CCTGTAATGTACACCTATGATGAATACACCAAAGGCTACCTGGATCAGGCTTCAGGGAGT 518

Qy        348 GCAATCATGGAGCTCACAGAAAATGACCAGGTATGGCTCCAATTGCCCAATGCAGAATCA 407
              || ||||| || |||||||||||||||||||| |||||||  | |||||||| || |||
Db        519 GCCATCATCGATCTCACAGAAAATGACCAGGTGTGGCTCCAGCTTCCCAATGCCGAGTCA 578

Qy        408 AACGGCCTCTACTCCTCTGAGTACGTCCACTCGTCCTTCTCAGGATTCCTAG 459
              || ||||| |||| || |||||| ||||||| |  || | | |||||||||
Db        579 AATGGCCTATACTNCTNTGAGTATGTCCACTNCTTTTTNTNANGATTCCTAG 630


RESULT 14
US-10-198-846-10814
; Sequence 10814, Application US/10198846
; Publication No. US20030099974A1
; GENERAL INFORMATION:
;  APPLICANT: Lillie, James
;  APPLICANT:  Xu, Yongyao
;  APPLICANT:  Wang, Youzhen
;  APPLICANT:  Steinmann, Kathleen
;  TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS
;  TITLE OF INVENTION:  FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
;  TITLE OF INVENTION:  THERAPY OF BREAST CANCER
;  FILE REFERENCE: MRI-049
;  CURRENT APPLICATION NUMBER: US/10/198,846
;  CURRENT FILING DATE:  2002-07-18
;  PRIOR APPLICATION NUMBER: 60/306,220
;  PRIOR FILING DATE: 2001-07-18
;  NUMBER OF SEQ ID NOS: 14084
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10814
;   LENGTH: 3368
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: 1, 2, 3, 4, 3361, 3362, 3363, 3364, 3365, 3366, 3367, 3368
;   OTHER INFORMATION: n = A,T,C or G
US-10-198-846-10814

  Query Match             73.2%;  Score 336;  DB 15;  Length 3368;
  Best Local Similarity   85.4%;  Pred. No. 6.1e-109;
  Matches  403;  Conservative    0;  Mismatches   55;  Indels   14;  Gaps    2;

Qy          1 GTCATGCCTGATGGCTTCATAAAGGCAGGCCAGAGGCCCAGGCTTTCTGGGATGCCGCTT 60
              |||||||||||  ||  || ||||||||||||||| ||||||| |||||||||  || |||
Db       1731 GTCATGCCTGAGGGTTTTATAAAGGCAGGCCAAAGGCCCAGTCTTTCTGGGACCCCTCTT 1790

Qy         61 GTCAGTGCTAACCACGGGGGTAACAGGTATGCCCGTGTCTGCTTTTACTGTCATTCTCTCT 120
              || ||||| ||||| |||||||||||| ||||| ||||||||||||||||||| ||||||||
Db       1791 GTTAGTGCCAACCAGGGGGTAACAGGAATGCCTGTGTCTGCTTTTACTGTTATTCTCTCC 1850

Qy        121 AAAGCTTACCCAGCAGTAGGTGCCCCCATCCCATTTGATGAGATTCTGTACAATAGGCAG 180
              ||||||||||||||| ||||  | ||||| ||||||||| | ||| |||| || |||||
Db       1851 AAAGCTTACCCAGCAATAGG-AACTCCATACCATTTGATAAAATTTTGTATAACAGGCAA 1909
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Qy        181 CAGCATTACGACCCAAGATCTGGTATCTTTACCTGTAAGATCCCAGGCATATACTATTTC 240
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Db       1910 CAGCATTATGACCCAAGGACTGGAATCTTTACTTGTCAGATACCAGGAATATACTATTTT 1969

Qy        241 TCCTACCACGTGCATGTGAAAGGGACTCACGTTTGGGTAGGCCTGTATAAGAACGGC--- 297
              || ||||||||||||||||||||||||| |||||||||||||||||||||||| |||
Db       1970 TCATACCACGTGCATGTGAAAGGGACTCATGTTTGGGTAGGCCTGTATAAGAATGGCACC 2029

Qy        298 ----------ACACGTATGATGAGTACAGCAAAGGCTACCTGGATCAGGCTTCAGGGAGT 347
                       |||| |||||||| |||| |||||||||||||||||||||||||||||||
Db       2030 CCTGTAATGTACACCTATGATGAATACACCAAAGGCTACCTGGATCAGGCTTCAGGGAGT 2089

Qy        348 GCAATCATGGAGCTCACAGAAAATGACCAGGTATGGCTCCAATTGCCCAATGCAGAATCA 407
              || ||||| || |||||||||||||||||||| |||||||  | ||||||| || |||
Db       2090 GCCATCATCGATCTCACAGAAAATGACCAGGTGTGGCTCCAGCTTCCCAATGCCGAGTCA 2149

Qy        408 AACGGCCTCTACTCCTCTGAGTACGTCCACTCGTCCTTCTCAGGATTCCTAG 459
              || ||||| |||||||||||||| |||||||| || ||||||||||||||
Db       2150 AATGGCCTATACTCCTCTGAGTATGTCCACTCCTCTTTCTCAGGATTCCTAG 2201
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RESULT 15
US-10-085-783A-38423
; Sequence 38423, Application US/10085783A
; Publication No. US20040037841A1
; GENERAL INFORMATION:
; APPLICANT: ChondroGene Inc.
; *APPLICANT: Liew, C.C.
; TITLE OF INVENTION: Compositions and Methods Relatiing to Osteoarthritis
; FILE REFERENCE: 4231/2002
; CURRENT APPLICATION NUMBER: US/10/085,783A
; CURRENT FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/305,340
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/275,017
; PRIOR FILING DATE: 2001-03-12
; PRIOR APPLICATION NUMBER: US 60/271,955
; PRIOR FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 58994
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 38423
; LENGTH: 465
; TYPE: DNA
; ORGANISM: Human
US-10-085-783A-38423

Query Match 61.2%; Score 281; DB 13; Length 465;
Best Local Similarity 85.1%; Pred. No. 1.1e-89;
Matches 331; Conservative 0; Mismatches 45; Indels 13; Gaps 1;

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Qy         84 AGGTATGCCCGTGTCTGCTTTTACTGTCATTCTCTCTAAAGCTTACCCAGCAGTAGGTGC 143
              ||| ||||| |||||||||||||||| |||||||| |||||||||||||| ||||  |
Db          1 AGGAATGCCTGTGTCTGCTTTTACTGTTATTCTCTCCAAAGCTTACCCAGCAATAGGAAC 60

Qy        144 CCCCATCCCATTTGATGAGATTCTGTACAATAGGCAGCAGCATTACGACCCAAGATCTGG 203
              ||||| ||||||||| | ||| |||| || ||||| |||||||| ||||||||  ||||
Db         61 TCCCATACCATTTGATAAAATTTTGTATAACAGGCAACAGCATTATGACCCAAGGACTGG 120

Qy        204 TATCTTTACCTGTAAGATCCCAGGCATATACTATTTCTCCTACCACGTGCATGTGAAAGG 263
              |||||||| ||| |||| ||||| |||||||||| || ||||||||||||||||||||
Db        121 AATCTTTACTTGTCAGATACCAGGAATATACTATTTTCATACCACGTGCATGTGAAAGG 180

Qy        264 GACTCACGTTTGGGTAGGCCTGTATAAGAACGGC------------ACACGTATGATGA 310
              |||||| ||||||||||||||||||||| |||            |||| ||||||||
Db        181 GACTCATGTTTGGGTAGGCCTGTATAAGAATGGCACCCCTGTAATGTACACCTATGATGA 240

Qy        311 GTACAGCAAAGGCTACCTGGATCAGGCTTCAGGGAGTGCAATCATGGAGCTCACAGAAAA 370
              |||| ||||||||||||||||||||||||||||||| ||||| || ||||||||||||
Db        241 ATACACCAAAGGCTACCTGGATCAGGCTTCAGGGAGTGCCATCATCGATCTCACAGAAAA 300

Qy        371 TGACCAGGTATGGCTCCAATTGCCCAATGCAGAATCAAACGGCCTCTACTCCTCTGAGTA 430
              ||||||||| ||||||||  | |||||||| || ||||| |||||  ||||||||||||
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Db        301 TGACCAGGTGTGGCTCCAGCTTCCCAATGCCGAGTCAAATGGCCTACACTCCTCTGAGTA 360

Qy        431 CGTCCACTCGTCCTTCTCAGGATTCCTAG 459
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Db        361 TGTCCACTCCTCTTTCTCAGGATTCCTAG 389
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Search completed: July 20, 2004, 23:48:02
Job time : 338 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: July 20, 2004, 11:56:30 ; Search time 66 Seconds
(without alignments)
3859.431 Million cell updates/sec

Title: US-09-975-607A-2
Perfect score: 459
Sequence: 1 gtcatgcctgatggcttcat.....gtccttctcaggattcctag 459

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA:*
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2: /cgn2_6/ptodata/2/ina/5B_COMB.seq:*
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6: /cgn2_6/ptodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	459	100.0	459	4	US-09-415-551-2	Sequence 2, Appli
2	436	95.0	486	4	US-09-415-551-1	Sequence 1, Appli
3	133	29.0	2487	4	US-09-620-312D-160	Sequence 160, App
4	90.8	19.8	855	4	US-09-552-204A-10	Sequence 10, Appl
5	69	15.0	1313	2	US-08-463-911-6	Sequence 6, Appli
6	69	15.0	4517	3	US-09-140-804-9	Sequence 9, Appli
7	69	15.0	4517	4	US-09-686-838B-9	Sequence 9, Appli
8	69	15.0	4517	4	US-09-776-976-5	Sequence 5, Appli
9	69	15.0	4517	4	US-09-909-547-5	Sequence 5, Appli
10	69	15.0	4545	4	US-09-569-852B-5	Sequence 5, Appli
11	69	15.0	20966	4	US-09-776-976-7	Sequence 7, Appli
12	69	15.0	20966	4	US-09-909-547-7	Sequence 7, Appli
13	69	15.0	20966	4	US-09-569-852B-1	Sequence 1, Appli
14	66.8	14.6	729	3	US-09-140-804-10	Sequence 10, Appl
15	66.8	14.6	729	4	US-09-686-838B-10	Sequence 10, Appl
16	66.6	14.5	1152	4	US-09-776-976-1	Sequence 1, Appli
17	66.6	14.5	1152	4	US-09-909-547-1	Sequence 1, Appli
18	66.6	14.5	1276	2	US-08-463-911-1	Sequence 1, Appli
19	66.6	14.5	1276	4	US-09-776-976-3	Sequence 3, Appli
20	66.6	14.5	1276	4	US-09-909-547-3	Sequence 3, Appli
21	64.2	14.0	1161	4	US-09-552-204A-1	Sequence 1, Appli
22	56.6	12.3	1052	4	US-09-312-283C-358	Sequence 358, App
23	56.6	12.3	1107	3	US-09-188-930-217	Sequence 217, App
24	56.6	12.3	1107	4	US-09-312-283C-217	Sequence 217, App
25	49.6	10.8	729	4	US-09-336-536-9	Sequence 9, Appli
26	49.6	10.8	1263	4	US-09-336-536-8	Sequence 8, Appli
27	48	10.5	1001	3	US-09-188-930-218	Sequence 218, App
28	48	10.5	1001	4	US-09-312-283C-218	Sequence 218, App
29	48	10.5	1015	3	US-09-188-930-30	Sequence 30, Appl
30	48	10.5	1015	4	US-09-312-283C-30	Sequence 30, Appl
31	45.6	9.9	728	4	US-09-336-536-2	Sequence 2, Appli
32	45.6	9.9	1141	4	US-09-800-729-78	Sequence 78, Appl
33	45.6	9.9	1338	4	US-09-336-536-1	Sequence 1, Appli
34	45.6	9.9	1347	3	US-09-140-804-1	Sequence 1, Appli
35	45.6	9.9	1347	4	US-09-686-838B-1	Sequence 1, Appli
36	45.6	9.9	1377	4	US-09-866-028-41	Sequence 41, Appl
37	42.6	9.3	935	4	US-09-023-655-1252	Sequence 1252, Ap
38	39.4	8.6	1839	1	US-08-383-744-1	Sequence 1, Appli
39	39.4	8.6	1839	2	US-08-999-336-1	Sequence 1, Appli
40	39.4	8.6	1839	5	PCT-US96-01427-1	Sequence 1, Appli
41	39	8.5	1108	4	US-09-800-729-42	Sequence 42, Appl
42	38.4	8.4	1297	4	US-09-800-729-80	Sequence 80, Appl
43	36.6	8.0	536	4	US-09-552-204A-11	Sequence 11, Appl
44	35.6	7.8	1333	4	US-09-227-357-51	Sequence 51, Appl
45	35	7.6	832	4	US-09-621-976-2813	Sequence 2813, Ap

ALIGNMENTS

RESULT 1
US-09-415-551-2
; Sequence 2, Application US/09415551
; Patent No. 6369295
; GENERAL INFORMATION:
; APPLICANT: Cheah, Kathryn
; APPLICANT: Cheung, Kenneth
; TITLE OF INVENTION: USES OF TRANSGENIC ANIMALS CONTAINING A TYPE X COLLAGEN
; TITLE OF INVENTION: MUTANT
; FILE REFERENCE: 57114-A
; CURRENT APPLICATION NUMBER: US/09/415,551
; CURRENT FILING DATE: 1999-10-08
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 459
; TYPE: DNA
; ORGANISM: mouse
US-09-415-551-2

Query Match 100.0%; Score 459; DB 4; Length 459;
Best Local Similarity 100.0%; Pred. No. 1.1e-155;
Matches 459; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy          1 GTCATGCCTGATGGCTTCATAAAGGCAGGCCAGAGGCCCAGGCTTTCTGGGATGCCGCTT 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db          1 GTCATGCCTGATGGCTTCATAAAGGCAGGCCAGAGGCCCAGGCTTTCTGGGATGCCGCTT 60

Qy         61 GTCAGTGCTAACCACGGGGTAACAGGTATGCCCGTGTCTGCTTTTACTGTCATTCTCTCT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 GTCAGTGCTAACCACGGGGTAACAGGTATGCCCGTGTCTGCTTTTACTGTCATTCTCTCT 120

Qy        121 AAAGCTTACCCAGCAGTAGGTGCCCCCATCCCATTTGATGAGATTCTGTACAATAGGCAG 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 AAAGCTTACCCAGCAGTAGGTGCCCCCATCCCATTTGATGAGATTCTGTACAATAGGCAG 180

Qy        181 CAGCATTACGACCCAAGATCTGGTATCTTTACCTGTAAGATCCCAGGCATATACTATTTC 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 CAGCATTACGACCCAAGATCTGGTATCTTTACCTGTAAGATCCCAGGCATATACTATTTC 240

Qy        241 TCCTACCACGTGCATGTGAAAGGGACTCACGTTTGGGTAGGCCTGTATAAGAACGGCACA 300
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 TCCTACCACGTGCATGTGAAAGGGACTCACGTTTGGGTAGGCCTGTATAAGAACGGCACA 300

Qy        301 CGTATGATGAGTACAGCAAAGGCTACCTGGATCAGGCTTCAGGGAGTGCAATCATGGAGC 360
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Db        301 CGTATGATGAGTACAGCAAAGGCTACCTGGATCAGGCTTCAGGGAGTGCAATCATGGAGC 360

Qy        361 TCACAGAAAATGACCAGGTATGGCTCCAATTGCCCAATGCAGAATCAAACGGCCTCTACT 420
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Db        361 TCACAGAAAATGACCAGGTATGGCTCCAATTGCCCAATGCAGAATCAAACGGCCTCTACT 420

Qy        421 CCTCTGAGTACGTCCACTCGTCCTTCTCAGGATTCCTAG 459
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Db        421 CCTCTGAGTACGTCCACTCGTCCTTCTCAGGATTCCTAG 459


RESULT 2
US-09-415-551-1
; Sequence 1, Application US/09415551
; Patent No. 6369295
; GENERAL INFORMATION:
;  APPLICANT: Cheah, Kathryn
;  APPLICANT:  Cheung, Kenneth
;  TITLE OF INVENTION: USES OF TRANSGENIC ANIMALS CONTAINING A TYPE X COLLAGEN
;  TITLE OF INVENTION:  MUTANT
;  FILE REFERENCE: 57114-A
;  CURRENT APPLICATION NUMBER: US/09/415,551
;  CURRENT FILING DATE:  1999-10-08
;  NUMBER OF SEQ ID NOS: 5
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
;   LENGTH: 486
;   TYPE: DNA
;   ORGANISM: mouse
US-09-415-551-1

  Query Match            95.0%;  Score 436;  DB 4;  Length 486;
  Best Local Similarity  97.2%;  Pred. No. 2.2e-147;
  Matches  459;  Conservative    0;  Mismatches    0;  Indels   13;  Gaps    1;

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Db          1 GTCATGCCTGATGGCTTCATAAAGGCAGGCCAGAGGCCCAGGCTTTCTGGGATGCCGCTT 60

Qy         61 GTCAGTGCTAACCACGGGGTAACAGGTATGCCCGTGTCTGCTTTTACTGTCATTCTCTCT 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 GTCAGTGCTAACCACGGGGTAACAGGTATGCCCGTGTCTGCTTTTACTGTCATTCTCTCT 120

Qy        121 AAAGCTTACCCAGCAGTAGGTGCCCCCATCCCATTTGATGAGATTCTGTACAATAGGCAG 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 AAAGCTTACCCAGCAGTAGGTGCCCCCATCCCATTTGATGAGATTCTGTACAATAGGCAG 180

Qy        181 CAGCATTACGACCCAAGATCTGGTATCTTTACCTGTAAGATCCCAGGCATATACTATTTC 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 CAGCATTACGACCCAAGATCTGGTATCTTTACCTGTAAGATCCCAGGCATATACTATTTC 240

Qy        241 TCCTACCACGTGCATGTGAAAGGGACTCACGTTTGGGTAGGCCTGTATAAGAACGGC--- 297
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 TCCTACCACGTGCATGTGAAAGGGACTCACGTTTGGGTAGGCCTGTATAAGAACGGCACG 300

Qy        298 ----------ACACGTATGATGAGTACAGCAAAGGCTACCTGGATCAGGCTTCAGGGAGT 347
                       ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        301 CCTACGATGTACACGTATGATGAGTACAGCAAAGGCTACCTGGATCAGGCTTCAGGGAGT 360

Qy        348 GCAATCATGGAGCTCACAGAAAATGACCAGGTATGGCTCCAATTGCCCAATGCAGAATCA 407
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        361 GCAATCATGGAGCTCACAGAAAATGACCAGGTATGGCTCCAATTGCCCAATGCAGAATCA 420

Qy        408 AACGGCCTCTACTCCTCTGAGTACGTCCACTCGTCCTTCTCAGGATTCCTAG 459
              |||||||||||||||||||||||||||||||||||||||||||||||||||
Db        421 AACGGCCTCTACTCCTCTGAGTACGTCCACTCGTCCTTCTCAGGATTCCTAG 472


RESULT 3
US-09-620-312D-160
; Sequence 160, Application US/09620312D
; Patent No. 6569662
; GENERAL INFORMATION:
;  APPLICANT: Tang, Y. Tom
;  APPLICANT:  Liu, Chenghua
;  APPLICANT:  Asundi, Vinod
;  APPLICANT:  Zhang, Jie
;  APPLICANT:  Ren, Feiyan
;  APPLICANT:  Chen, Rui-hong
;  APPLICANT:  Zhao, Qing A.
;  APPLICANT:  Wehrman, Tom
;  APPLICANT:  Xue, Aidong J.
;  APPLICANT:  Yang, Yonghong
;  APPLICANT:  Wang, Jian-Rui
;  APPLICANT:  Zhou, Ping
;  APPLICANT:  Ma, Yunqing
;  APPLICANT:  Wang, Dunrui
;  APPLICANT:  Wang, Zhiwei
;  APPLICANT:  John Tillinghast
;  APPLICANT:  Drmanac, Radoje T.
;  TITLE OF INVENTION: No. 6569662el Nucleic Acids and
;  TITLE OF INVENTION:  Polypeptides
;  FILE REFERENCE: 784CIP2B
;  CURRENT APPLICATION NUMBER: US/09/620,312D
;  CURRENT FILING DATE:  2000-07-19
;  PRIOR APPLICATION NUMBER: 09/552,317
;  PRIOR FILING DATE: 2000-04-25
;  PRIOR APPLICATION NUMBER: 09/488,725
;  PRIOR FILING DATE: 2000-01-21
;  NUMBER OF SEQ ID NOS: 1105
;  SOFTWARE: pt_FL_genes Version 1.0
; SEQ ID NO 160
;   LENGTH: 2487
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: (235)..(2469)
US-09-620-312D-160

  Query Match            29.0%;  Score 133;  DB 4;  Length 2487;
  Best Local Similarity  62.1%;  Pred. No. 1.5e-37;
  Matches  234;  Conservative    0;  Mismatches  130;  Indels   13;  Gaps    1;

Qy         95 TGTCTGCTTTTACTGTCATTCTCTCTAAAGCTTACCCAGCAGTAGGTGCCCCCATCCCAT 154
              || |||| ||||| | |   || |   | ||| |||| | || || ||||| |     |
Db       2078 TGCCTGCATTTACCGCCGAGCTAACCGCACCTTTCCCACCGGTGGGGGCCCCAGTGAAGT 2137

Qy        155 TTGATGAGATTCTGTACAATAGGCAGCAGCATTACGACCCAAGATCTGGTATCTTTACCT 214
              || |  | | ||||| ||  |   ||| | ||| ||||     | || ||||| ||||
Db       2138 TTAACAAACTGCTGTATAACGGCAGACAGAACTACAACCCGCAGACAGGCATCTTCACCT 2197

Qy        215 GTAAGATCCCAGGCATATACTATTTCTCCTACCACGTGCATGTGAAAGGGACTCACGTTT 274
              || || |||| ||  | ||||| ||  | |||||||| ||    || |||    |||| |
Db       2198 GTGAGGTCCCTGGTGTCTACTACTTTGCATACCACGTTCACTGCAAGGGGGGCAACGTGT 2257

Qy        275 GGGTAGGCCTGTATAAGAAC-------------GGCACACGTATGATGAGTACAGCAAAG 321
              |||| |  || |  ||||||               | ||||||| || |||||||  || |
Db       2258 GGGTTGCTCTATTCAAGAACAACGAGCCCGTGATGTACACGTACGACGAGTACAAAAAGG 2317

Qy        322 GCTACCTGGATCAGGCTTCAGGGAGTGCAATCATGGAGCTCACAGAAAATGACCAGGTAT 381
              ||| ||||||  ||||| || |||||||| |  ||  |||||        |||| ||| |
Db       2318 GCTTCCTGGACCAGGCATCTGGGAGTGCAGTGCTGCTGCTCAGGCCCGGAGACCGGGTGT 2377

Qy        382 GGCTCCAATTGCCCAATGCAGAATCAAACGGCCTCTACTCCTCTGAGTACGTCCACTCGT 441
              |||||  |||||   | | |  |    || || ||  ||    |||| |||||||| |
Db       2378 TCCTCCAGATGCCCTCAGAACAGGCTGCAGGACTGTATGCCGGGCAGTATGTCCACTCCT 2437

Qy        442 CCTTCTCAGGATTCCTA 458
              ||||  |||||||   ||
Db       2438 CCTTTTCAGGATATTTA 2454


RESULT 4
US-09-552-204A-10
; Sequence 10, Application US/09552204A
; Patent No. 6620909
; GENERAL INFORMATION:
;  APPLICANT: Piddington, Christopher S.
;  APPLICANT:  Bishop, Paul D.
```

```
;  TITLE OF INVENTION: ADIPOCYTE-SPECIFIC PROTEIN HOMOLOG ZACRP2
;  FILE REFERENCE: 99-08
;  CURRENT APPLICATION NUMBER: US/09/552,204A
;  CURRENT FILING DATE:  2000-04-19
;  PRIOR APPLICATION NUMBER: 60/130,207
;  PRIOR FILING DATE: 1999-04-20
;  NUMBER OF SEQ ID NOS: 20
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 855
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Degenerate nucleotide sequence encoding the
;   OTHER INFORMATION: polypeptide of SEQ ID NO:2.
;   NAME/KEY: variation
;   LOCATION: (1)...(855)
;   OTHER INFORMATION: Each N is independently any nucleotide.
US-09-552-204A-10

  Query Match             19.8%;  Score 90.8;  DB 4;  Length 855;
  Best Local Similarity   35.3%;  Pred. No. 1.5e-22;
  Matches  129;  Conservative   70;  Mismatches  156;  Indels   10;  Gaps    1;

Qy         77 GGGTAACAGGTATGCCCGTGTCTGCTTTTACTGTCATTCTCTCTAAAGCTTACCCAGCAG 136
              |  |   :: ||      |   ::: || ||::: ||      |  | ||: : ||:||    |
Db        428 GYGGNWSNGGNCAYACNAARWSNGCNTTYWSNGTNGCNGTNACNAARWSNTAYCCNMGNG 487

Qy        137 TAGGTGCCCCCATCCCATTTGATGAGATTCTGTACAATAGGCAGCAGCATTACGACCCAA 196
               :  |     || ||:  :||:||: |:||::|     ||:  :       ||:||: |: | :
Db        488 ARMGNYTNCCNATHAARTTYGAYAARATHYTNATGAAYGARGGNGGNCAYTAYAAYGCNW 547

Qy        197 GATCTGGTATCTTTACCTGTAAGATCCCAGGCATATACTATTTCTCCTACCACGTGCATG 256
              : :: || |  ||:   ||:    | || || ||:||:||:||: | ||: |: |
Db        548 SNWSNGGNAARTTYGTNTGYGGNGTNCCNGGNATHTAYTAYTTYACNTAYGAYATHACNY 607

Qy        257 TGAAAGGGACTCACGTTTGGGTAGGCCTGTATAAGAACGGCACACGTATGATGAGTAC-- 314
              |      |  ||: |     |:|| :|     | ||:||   :  ::  || :| ||
Db        608 TNGCNAAYAARCAYYTNGCNATHGGNYTNGTNCAYAAYGGNCARTAYMGNATHMGNACNT 667

Qy        315 --------AGCAAAGGCTACCTGGATCAGGCTTCAGGGAGTGCAATCATGGAGCTCACAG 366
                    | :|  ||  |:|  ||:   || :: || ::  | ||: | |  :| | :
Db        668 TYGAYGCNAAYACNGGNAAYCAYGAYGTNGCNWSNGGNWSNACNATHYTNGCNYTNAARC 727

Qy        367 AAAATGACCAGGTATGGCTCCAATTGCCCAATGCAGAATCAAACGGCCTCTACTCCTCTG 426
              |:   ||: |:|| |||:| ||: |   : |: : ||:  :||:|| :| | :|  :  :
Db        728 ARGGNGAYGARGTNTGGYTNCARATHTTYTAYWSNGARCARAAYGGNYTNTTYTAYGAYC 787

Qy        427 AGTAC 431
                ||:
Db        788 CNTAY 792


RESULT 5
US-08-463-911-6
; Sequence 6, Application US/08463911
; Patent No. 5869330
;  GENERAL INFORMATION:
;    APPLICANT:  Scherer, Philipp E.
;    APPLICANT:  Lodish, Harvey F.
;    TITLE OF INVENTION:  A NOVEL SERUM PROTEIN PRODUCED
;    TITLE OF INVENTION:  EXCLUSIVELY IN ADIPOCYTES
;    NUMBER OF SEQUENCES:  7
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Hamilton, Brook, Smith & Reynolds, P.C.
;      STREET:  Two Militia Drive
;      CITY:  Lexington
;      STATE:  Massachusetts
;      COUNTRY:  USA
;      ZIP:  02173
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/463,911
;      FILING DATE:
;      CLASSIFICATION:  530
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Granahan, Patricia
;      REGISTRATION NUMBER:  32,227
;      REFERENCE/DOCKET NUMBER:  WHI95-05
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (617) 861-6240
;      TELEFAX:  (617) 861-9540
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  1313 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  DNA (genomic)
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  73..804
US-08-463-911-6

  Query Match             15.0%;  Score 69;  DB 2;  Length 1313;
  Best Local Similarity   55.6%;  Pred. No. 1.4e-14;
  Matches  183;  Conservative    0;  Mismatches  130;  Indels   16;  Gaps    2;

Qy        145 CCCATCCCATTTGATGAGATTCTGTACAATAGGCAGCAGCATTACGACCCAAGATCTGGT 204
              ||||| |  |||    ||||  | ||||||  |||  | || || ||         |||||
Db        457 CCCATTCGCTTTACCAAGATCTTCTACAATCAGCAAAACCACTATGATGGCTCCACTGGT 516

Qy        205 ATCTTTACCTGTAAGATCCCAGGCATATACTATTTCTCCTACCACGTGCATGTGAAAGGG 264
              |  ||   ||| || || || ||  | ||||| ||  |||||||| |    ||  |   |
Db        517 AAATTCCACTGCAACATTCCTGGGCTGTACTACTTTGCCTACCACATCACAGTCTATATG 576

Qy        265 ACTCACGTTTGGGTAGGCCTGTATAAGAACGGCA-------------CACGTATGATGAG 311
              |   | ||   |||  |||| |  ||||| | ||              ||| ||||||| ||
Db        577 AAGGATGTGAAGGTCAGCCTCTTCAAGAAGGACAAGGCTATGCTCTTCACCTATGATCAG 636

Qy        312 TACAGCAAAGGCTACCTGGATCAGGCTTCAGGGAGTGCAATCATGGAGCTCACAGAAAAT 371
              |||     ||    |  |||| ||||| || ||   ||   || || | ||    |
Db        637 TACCAGGAAAATAATGTGGACCAGGCCTCCGGCTCTGTGCTCCTGCATCTGGAGGTGGGC 696

Qy        372 GACCAGGTATGGCTCCAATTG---CCCAATGCAGAATCAAACGGCCTCTACTCCTCTGAG 428
              ||||| || ||||||||  ||       | | |||    || || |||||  |   | |
Db        697 GACCAAGTCTGGCTCCAGGTGTATGGGGAAGGAGAGCGTAATGGACTCTATGCTGATAAT 756

Qy        429 TACGTCCACTCGTCCTTCTCAGGATTCCT 457
              ||    ||||  ||||| |||| || ||
Db        757 GACAATGACTCCACCTTCACAGGCTTTCT 785


RESULT 6
US-09-140-804-9
; Sequence 9, Application US/09140804
; Patent No. 6197930
; GENERAL INFORMATION:
;  APPLICANT: Sheppard, Paul O.
;  APPLICANT: Humes, Jacqueline M.
;  TITLE OF INVENTION: ADIPOCYTE-SPECIFIC PROTEIN HOMOLOGS
;  FILE REFERENCE: 97-49
;  CURRENT APPLICATION NUMBER: US/09/140,804
;  CURRENT FILING DATE: 1998-08-26
;  EARLIER APPLICATION NUMBER: 60/056,983
;  EARLIER FILING DATE: 1997-08-26
;  NUMBER OF SEQ ID NOS: 47
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 9
;   LENGTH: 4517
;   TYPE: DNA
;   ORGANISM: Homo sapiens
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US-09-140-804-9

Query Match 15.0%; Score 69; DB 3; Length 4517;
Best Local Similarity 55.6%; Pred. No. 2.8e-14;
Matches 183; Conservative 0; Mismatches 130; Indels 16; Gaps 2;

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Qy        145 CCCATCCCATTTGATGAGATTCTGTACAATAGGCAGCAGCATTACGACCCAAGATCTGGT 204
              ||||| |  |||    ||||  | ||||||  |||  | || || ||        |||||
Db        411 CCCATTCGCTTTACCAAGATCTTCTACAATCAGCAAAACCACTATGATGGCTCCACTGGT 470

Qy        205 ATCTTTACCTGTAAGATCCCAGGCATATACTATTTCTCCTACCACGTGCATGTGAAAGGG 264
              |  ||   ||| || || || ||  | ||||| ||  |||||||| |    ||  |   |
Db        471 AAATTCCACTGCAACATTCCTGGGCTGTACTACTTTGCCTACCACATCACAGTCTATATG 530

Qy        265 ACTCACGTTTGGGTAGGCCTGTATAAGAACGGCA------------CACGTATGATGAG 311
              |   | ||   |||  |||| |  ||||| | ||              ||| ||||||  ||
Db        531 AAGGATGTGAAGGTCAGCCTCTTCAAGAAGGACAAGGCTATGCTCTTCACCTATGATCAG 590

Qy        312 TACAGCAAAGGCTACCTGGATCAGGCTTCAGGGAGTGCAATCATGGAGCTCACAGAAAAT 371
              |||    ||    |  |||| ||||| || ||   ||  || || | ||    |
Db        591 TACCAGGAAAATAATGTGGACCAGGCCTCCGGCTCTGTGCTCCTGCATCTGGAGGTGGGC 650

Qy        372 GACCAGGTATGGCTCCAATTG---CCCAATGCAGAATCAAACGGCCTCTACTCCTCTGAG 428
              ||||| || ||||||||  ||       | | |||    || || |||||  |  | |
Db        651 GACCAAGTCTGGCTCCAGGTGTATGGGGAAGGAGAGCGTAATGGACTCTATGCTGATAAT 710

Qy        429 TACGTCCACTCGTCCTTCTCAGGATTCCT 457
                ||    ||||  ||||| |||| || ||
Db        711 GACAATGACTCCACCTTCACAGGCTTTCT 739
```

RESULT 7
US-09-686-838B-9
; Sequence 9, Application US/09686838B
; Patent No. 6482612
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; APPLICANT: Humes, Jacqueline M.
; TITLE OF INVENTION: Adipocyte-Specific Protein Homologs
; FILE REFERENCE: 97-49D1
; CURRENT APPLICATION NUMBER: US/09/686,838B
; CURRENT FILING DATE: 2000-10-10
; PRIOR APPLICATION NUMBER: US 09/140,804
; PRIOR FILING DATE: 1998-08-26
; PRIOR APPLICATION NUMBER: US 60/056,983
; PRIOR FILING DATE: 1997-08-26
; NUMBER OF SEQ ID NOS: 50
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 4517
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-686-838B-9

Query Match 15.0%; Score 69; DB 4; Length 4517;
Best Local Similarity 55.6%; Pred. No. 2.8e-14;
Matches 183; Conservative 0; Mismatches 130; Indels 16; Gaps 2;

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Qy        145 CCCATCCCATTTGATGAGATTCTGTACAATAGGCAGCAGCATTACGACCCAAGATCTGGT 204
              ||||| |  |||    ||||  | ||||||  |||  | || || ||        |||||
Db        411 CCCATTCGCTTTACCAAGATCTTCTACAATCAGCAAAACCACTATGATGGCTCCACTGGT 470

Qy        205 ATCTTTACCTGTAAGATCCCAGGCATATACTATTTCTCCTACCACGTGCATGTGAAAGGG 264
              |  ||   ||| || || || ||  | ||||| ||  |||||||| |    ||  |   |
Db        471 AAATTCCACTGCAACATTCCTGGGCTGTACTACTTTGCCTACCACATCACAGTCTATATG 530

Qy        265 ACTCACGTTTGGGTAGGCCTGTATAAGAACGGCA------------CACGTATGATGAG 311
              |   | ||   |||  |||| |  ||||| | ||              ||| ||||||  ||
Db        531 AAGGATGTGAAGGTCAGCCTCTTCAAGAAGGACAAGGCTATGCTCTTCACCTATGATCAG 590

Qy        312 TACAGCAAAGGCTACCTGGATCAGGCTTCAGGGAGTGCAATCATGGAGCTCACAGAAAAT 371
              |||    ||    |  |||| ||||| || ||   ||  || || | ||    |
Db        591 TACCAGGAAAATAATGTGGACCAGGCCTCCGGCTCTGTGCTCCTGCATCTGGAGGTGGGC 650

Qy        372 GACCAGGTATGGCTCCAATTG---CCCAATGCAGAATCAAACGGCCTCTACTCCTCTGAG 428
              ||||| || ||||||||  ||       | | |||    || || |||||  |  | |
Db        651 GACCAAGTCTGGCTCCAGGTGTATGGGGAAGGAGAGCGTAATGGACTCTATGCTGATAAT 710

Qy        429 TACGTCCACTCGTCCTTCTCAGGATTCCT 457
                ||    ||||  ||||| |||| || ||
Db        711 GACAATGACTCCACCTTCACAGGCTTTCT 739
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RESULT 8
US-09-776-976-5
; Sequence 5, Application US/09776976
; Patent No. 6566332
; GENERAL INFORMATION:
; APPLICANT: Fruebis, Joachim
; APPLICANT: Erickson, Mary Ruth
; APPLICANT: Yen, Frances
; APPLICANT: Bihain, Bernard
; TITLE OF INVENTION: OBG3 Globular Head and Uses Thereof for Decreasing Body Mass
; FILE REFERENCE: 76.US4.REG
; CURRENT APPLICATION NUMBER: US/09/776,976
; CURRENT FILING DATE: 2001-02-05
; PRIOR APPLICATION NUMBER: US 09/758,055
; PRIOR FILING DATE: 2001-01-10
; PRIOR APPLICATION NUMBER: US 60/176,228
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: US 60/198,087
; PRIOR FILING DATE: 2000-04-13
; PRIOR APPLICATION NUMBER: US 60/299,881
; PRIOR FILING DATE: 2000-09-01
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: Patent.pm
; SEQ ID NO 5
; LENGTH: 4517
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-776-976-5

Query Match 15.0%; Score 69; DB 4; Length 4517;
Best Local Similarity 55.6%; Pred. No. 2.8e-14;
Matches 183; Conservative 0; Mismatches 130; Indels 16; Gaps 2;

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Qy        145 CCCATCCCATTTGATGAGATTCTGTACAATAGGCAGCAGCATTACGACCCAAGATCTGGT 204
              ||||| |  |||    ||||  | ||||||  |||  | || || ||        |||||
Db        411 CCCATTCGCTTTACCAAGATCTTCTACAATCAGCAAAACCACTATGATGGCTCCACTGGT 470

Qy        205 ATCTTTACCTGTAAGATCCCAGGCATATACTATTTCTCCTACCACGTGCATGTGAAAGGG 264
              |  ||   ||| || || || ||  | ||||| ||  |||||||| |    ||  |   |
Db        471 AAATTCCACTGCAACATTCCTGGGCTGTACTACTTTGCCTACCACATCACAGTCTATATG 530

Qy        265 ACTCACGTTTGGGTAGGCCTGTATAAGAACGGCA------------CACGTATGATGAG 311
              |   | ||   |||  |||| |  ||||| | ||              ||| ||||||  ||
Db        531 AAGGATGTGAAGGTCAGCCTCTTCAAGAAGGACAAGGCTATGCTCTTCACCTATGATCAG 590

Qy        312 TACAGCAAAGGCTACCTGGATCAGGCTTCAGGGAGTGCAATCATGGAGCTCACAGAAAAT 371
              |||    ||    |  |||| ||||| || ||   ||  || || | ||    |
Db        591 TACCAGGAAAATAATGTGGACCAGGCCTCCGGCTCTGTGCTCCTGCATCTGGAGGTGGGC 650

Qy        372 GACCAGGTATGGCTCCAATTG---CCCAATGCAGAATCAAACGGCCTCTACTCCTCTGAG 428
              ||||| || ||||||||  ||       | | |||    || || |||||  |  | |
Db        651 GACCAAGTCTGGCTCCAGGTGTATGGGGAAGGAGAGCGTAATGGACTCTATGCTGATAAT 710

Qy        429 TACGTCCACTCGTCCTTCTCAGGATTCCT 457
                ||    ||||  ||||| |||| || ||
Db        711 GACAATGACTCCACCTTCACAGGCTTTCT 739
```

RESULT 9
US-09-909-547-5
; Sequence 5, Application US/09909547
; Patent No. 6579852
; GENERAL INFORMATION:

```
;  APPLICANT: Fruebis, Joachim
;  APPLICANT:  Erickson, Mary Ruth
;  APPLICANT:  Yen, Frances
;  APPLICANT:  Bihain, Bernard
;  TITLE OF INVENTION: OBG3 Globular Head and Uses Thereof for Decreasing Body Mass
;  FILE REFERENCE: 76.US6.CIP
;  CURRENT APPLICATION NUMBER: US/09/909,547
;  CURRENT FILING DATE:  2001-07-19
;  PRIOR APPLICATION NUMBER: US 09/776,976
;  PRIOR FILING DATE: 2001-02-05
;  PRIOR APPLICATION NUMBER: US 09/758,055
;  PRIOR FILING DATE: 2001-01-10
;  PRIOR APPLICATION NUMBER: US 60/299,881
;  PRIOR FILING DATE: 2000-09-01
;  PRIOR APPLICATION NUMBER: US 60/198,087
;  PRIOR FILING DATE: 2000-04-13
;  PRIOR APPLICATION NUMBER: US 60/176,228
;  PRIOR FILING DATE: 2000-01-14
;  NUMBER OF SEQ ID NOS: 7
;  SOFTWARE: Patent.pm
; SEQ ID NO 5
;   LENGTH: 4517
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-09-909-547-5

  Query Match             15.0%;  Score 69;  DB 4;  Length 4517;
  Best Local Similarity   55.6%;  Pred. No. 2.8e-14;
  Matches  183;  Conservative    0;  Mismatches  130;  Indels   16;  Gaps    2;

Qy        145 CCCATCCCATTTGATGAGATTCTGTACAATAGGCAGCAGCATTACGACCCAAGATCTGGT 204
              ||||| |  |||    ||||  | ||||||  |||  | || || ||        |||||
Db        411 CCCATTCGCTTTACCAAGATCTTCTACAATCAGCAAAACCACTATGATGGCTCCACTGGT 470

Qy        205 ATCTTTACCTGTAAGATCCCAGGCATATACTATTTCTCCTACCACGTGCATGTGAAAGGG 264
              |  ||   ||| || || || ||  | ||||| ||  |||||||| |    ||  |   |
Db        471 AAATTCCACTGCAACATTCCTGGGCTGTACTACTTTGCCTACCACATCACAGTCTATATG 530

Qy        265 ACTCACGTTTGGGTAGGCCTGTATAAGAACGGCA------------CACGTATGATGAG 311
              |   | ||   |||  |||| |  ||||| | ||             ||| ||||||  ||
Db        531 AAGGATGTGAAGGTCAGCCTCTTCAAGAAGGACAAGGCTATGCTCTTCACCTATGATCAG 590

Qy        312 TACAGCAAAGGCTACCTGGATCAGGCTTCAGGGAGTGCAATCATGGAGCTCACAGAAAAT 371
              |||    ||    | |||| ||||| || ||   ||   || || | ||      |
Db        591 TACCAGGAAAATAATGTGGACCAGGCCTCCGGCTCTGTGCTCCTGCATCTGGAGGTGGGC 650

Qy        372 GACCAGGTATGGCTCCAATTG---CCCAATGCAGAATCAAACGGCCTCTACTCCTCTGAG 428
              ||||| || |||||||  ||      | | |||    || || ||||  |   | |
Db        651 GACCAAGTCTGGCTCCAGGTGTATGGGGAAGGAGAGCGTAATGGACTCTATGCTGATAAT 710

Qy        429 TACGTCCACTCGTCCTTCTCAGGATTCCT 457
              ||    ||||  ||||| |||| || ||
Db        711 GACAATGACTCCACCTTCACAGGCTTTCT 739


RESULT 10
US-09-569-852B-5
; Sequence 5, Application US/09569852B
; Patent No. 6582909
; GENERAL INFORMATION:
;  APPLICANT: Bougueleret, Lydie
;  APPLICANT:  Bihain, Bernard
;  APPLICANT:  Denison, Blake
;  APPLICANT:  Yen-Potin, Frances
;  TITLE OF INVENTION: APM1 Biallelic Markers and Uses Thereof
;  FILE REFERENCE: GEN-T113XC2
;  CURRENT APPLICATION NUMBER: US/09/569,852B
;  CURRENT FILING DATE:  2002-03-12
;  PRIOR APPLICATION NUMBER: PCT/IB99/01858
;  PRIOR FILING DATE: 1999-11-04
;  PRIOR APPLICATION NUMBER: US 09/434,848
;  PRIOR FILING DATE: 1999-11-04
;  PRIOR APPLICATION NUMBER: US 60/119,593
;  PRIOR FILING DATE: 1999-02-10
;  PRIOR APPLICATION NUMBER: US 60/107,113
;  PRIOR FILING DATE: 1998-11-04
;  NUMBER OF SEQ ID NOS: 8
;  SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
;   LENGTH: 4545
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: (49)..(783)
;   OTHER INFORMATION:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(367)
;   OTHER INFORMATION: homology with 5' EST A254990 in private bank : GENSET
;   NAME/KEY: misc_feature
;   LOCATION: (91)..(93)
;   OTHER INFORMATION: Amino acid at position 15 (Xaa) means Gly
;   NAME/KEY: misc_feature
;   LOCATION: (15)..(15)
;   OTHER INFORMATION: The 'Xaa' at location 15 stands for Gly.
;   NAME/KEY: polyA_signal
;   LOCATION: (2937)..(2942)
;   OTHER INFORMATION: AATAAA potential
;   NAME/KEY: polyA_signal
;   LOCATION: (4525)..(4530)
;   OTHER INFORMATION: AATAAA
;   NAME/KEY: allele
;   LOCATION: (93)..(93)
;   OTHER INFORMATION: 9-12-124 : polymorphic base G or T
;   NAME/KEY: allele
;   LOCATION: (1156)..(1156)
;   OTHER INFORMATION: 9-16-189 : polymorphic base deletion of A
;   NAME/KEY: allele
;   LOCATION: (1815)..(1815)
;   OTHER INFORMATION: 17-37-629 : polymorphic base A or G
;   NAME/KEY: allele
;   LOCATION: (1997)..(1997)
;   OTHER INFORMATION: 17-37-811 : polymorphic base A or G
;   NAME/KEY: allele
;   LOCATION: (2475)..(2475)
;   OTHER INFORMATION: 17-38-349 : polymorphic base C or T
US-09-569-852B-5

  Query Match             15.0%;  Score 69;  DB 4;  Length 4545;
  Best Local Similarity   55.6%;  Pred. No. 2.8e-14;
  Matches  183;  Conservative    0;  Mismatches  130;  Indels   16;  Gaps    2;

Qy        145 CCCATCCCATTTGATGAGATTCTGTACAATAGGCAGCAGCATTACGACCCAAGATCTGGT 204
              ||||| |  |||    ||||  | ||||||  |||  | || || ||        |||||
Db        433 CCCATTCGCTTTACCAAGATCTTCTACAATCAGCAAAACCACTATGATGGCTCCACTGGT 492

Qy        205 ATCTTTACCTGTAAGATCCCAGGCATATACTATTTCTCCTACCACGTGCATGTGAAAGGG 264
              |  ||   ||| || || || ||  | ||||| ||  |||||||| |    ||  |   |
Db        493 AAATTCCACTGCAACATTCCTGGGCTGTACTACTTTGCCTACCACATCACAGTCTATATG 552

Qy        265 ACTCACGTTTGGGTAGGCCTGTATAAGAACGGCA------------CACGTATGATGAG 311
              |   | ||   |||  |||| |  ||||| | ||             ||| ||||||  ||
Db        553 AAGGATGTGAAGGTCAGCCTCTTCAAGAAGGACAAGGCTATGCTCTTCACCTATGATCAG 612

Qy        312 TACAGCAAAGGCTACCTGGATCAGGCTTCAGGGAGTGCAATCATGGAGCTCACAGAAAAT 371
              |||    ||    | |||| ||||| || ||   ||   || || | ||      |
Db        613 TACCAGGAAAATAATGTGGACCAGGCCTCCGGCTCTGTGCTCCTGCATCTGGAGGTGGGC 672

Qy        372 GACCAGGTATGGCTCCAATTG---CCCAATGCAGAATCAAACGGCCTCTACTCCTCTGAG 428
              ||||| || |||||||  ||      | | |||    || || ||||  |   | |
Db        673 GACCAAGTCTGGCTCCAGGTGTATGGGGAAGGAGAGCGTAATGGACTCTATGCTGATAAT 732

Qy        429 TACGTCCACTCGTCCTTCTCAGGATTCCT 457
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Db        733 GACAATGACTCCACCTTCACAGGCTTTCT 761
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RESULT 11
US-09-776-976-7
; Sequence 7, Application US/09776976
; Patent No. 6566332
; GENERAL INFORMATION:
;  APPLICANT: Fruebis, Joachim
;  APPLICANT:  Erickson, Mary Ruth
;  APPLICANT:  Yen, Frances
;  APPLICANT:  Bihain, Bernard
;  TITLE OF INVENTION: OBG3 Globular Head and Uses Thereof for Decreasing Body Mass
;  FILE REFERENCE: 76.US4.REG
;  CURRENT APPLICATION NUMBER: US/09/776,976
;  CURRENT FILING DATE:  2001-02-05
;  PRIOR APPLICATION NUMBER: US 09/758,055
;  PRIOR FILING DATE: 2001-01-10
;  PRIOR APPLICATION NUMBER: US 60/176,228
;  PRIOR FILING DATE: 2000-01-14
;  PRIOR APPLICATION NUMBER: US 60/198,087
;  PRIOR FILING DATE: 2000-04-13
;  PRIOR APPLICATION NUMBER: US 60/299,881
;  PRIOR FILING DATE: 2000-09-01
;  NUMBER OF SEQ ID NOS: 7
;  SOFTWARE: Patent.pm
; SEQ ID NO 7
;   LENGTH: 20966
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: 1..4811
;   OTHER INFORMATION: 5' regulatory region
;   NAME/KEY: exon
;   LOCATION: 4812..4851
;   OTHER INFORMATION: exon 1
;   NAME/KEY: exon
;   LOCATION: 15144..15365
;   OTHER INFORMATION: exon 2
;   NAME/KEY: exon
;   LOCATION: 16277..20559
;   OTHER INFORMATION: exon 3
;   NAME/KEY: misc_feature
;   LOCATION: 20560..20966
;   OTHER INFORMATION: 3' regulatory region
;   NAME/KEY: allele
;   LOCATION: 3787
;   OTHER INFORMATION: 9-27-261 : polymorphic base G or C
;   NAME/KEY: allele
;   LOCATION: 11118
;   OTHER INFORMATION: 99-14387-129 : polymorphic base A or C
;   NAME/KEY: allele
;   LOCATION: 15120
;   OTHER INFORMATION: 9-12-48 : polymorphic base C or T
;   NAME/KEY: allele
;   LOCATION: 15196
;   OTHER INFORMATION: 9-12-124 : polymorphic base G or T
;   NAME/KEY: allele
;   LOCATION: 15427
;   OTHER INFORMATION: 9-12-355 : polymorphic base G or T
;   NAME/KEY: allele
;   LOCATION: 15500
;   OTHER INFORMATION: 9-12-428 : polymorphic base A or G
;   NAME/KEY: allele
;   LOCATION: 15863
;   OTHER INFORMATION: 99-14405-105 : polymorphic base A or G
;   NAME/KEY: allele
;   LOCATION: 17170
;   OTHER INFORMATION: 9-16-189 : polymorphic base deletion of A
;   NAME/KEY: primer_bind
;   LOCATION: 3528..3545
;   OTHER INFORMATION: 9-27.pu
;   NAME/KEY: primer_bind
;   LOCATION: 3928..3946
;   OTHER INFORMATION: 9-27.rp complement
;   NAME/KEY: primer_bind
;   LOCATION: 10990..11008
;   OTHER INFORMATION: 99-14387.pu
;   NAME/KEY: primer_bind
;   LOCATION: 11423..11442
;   OTHER INFORMATION: 99-14387.rp complement
;   NAME/KEY: primer_bind
;   LOCATION: 15073..15092
;   OTHER INFORMATION: 9-12.pu
;   NAME/KEY: primer_bind
;   LOCATION: 15503..15520
;   OTHER INFORMATION: 9-12.rp complement
;   NAME/KEY: primer_bind
;   LOCATION: 15759..15776
;   OTHER INFORMATION: 99-14405.pu
;   NAME/KEY: primer_bind
;   LOCATION: 16191..16211
;   OTHER INFORMATION: 99-14405.rp complement
;   NAME/KEY: primer_bind
;   LOCATION: 16982..17001
;   OTHER INFORMATION: 9-16.pu
;   NAME/KEY: primer_bind
;   LOCATION: 17384..17402
;   OTHER INFORMATION: 9-16.rp complement
;   NAME/KEY: misc_binding
;   LOCATION: 3775..3799
;   OTHER INFORMATION: 9-27-261.probe
;   NAME/KEY: misc_binding
;   LOCATION: 11106..11130
;   OTHER INFORMATION: 99-14387-129.probe
;   NAME/KEY: misc_binding
;   LOCATION: 15108..15132
;   OTHER INFORMATION: 9-12-48.probe
;   NAME/KEY: misc_binding
;   LOCATION: 15184..15208
;   OTHER INFORMATION: 9-12-124.probe
;   NAME/KEY: misc_binding
;   LOCATION: 15415..15439
;   OTHER INFORMATION: 9-12-355.probe
;   NAME/KEY: misc_binding
;   LOCATION: 15488..15512
;   OTHER INFORMATION: 9-12-428.probe
;   NAME/KEY: misc_binding
;   LOCATION: 15851..15875
;   OTHER INFORMATION: 99-14405-105.probe
;   NAME/KEY: misc_binding
;   LOCATION: 17158..17182
;   OTHER INFORMATION: 9-16-189.probe
;   NAME/KEY: primer_bind
;   LOCATION: 3768..3786
;   OTHER INFORMATION: 9-27-261.mis
;   NAME/KEY: primer_bind
;   LOCATION: 3788..3806
;   OTHER INFORMATION: 9-27-261.mis complement
;   NAME/KEY: primer_bind
;   LOCATION: 11099..11117
;   OTHER INFORMATION: 99-14387-129.mis
;   NAME/KEY: primer_bind
;   LOCATION: 11119..11137
;   OTHER INFORMATION: 99-14387-129.mis complement
;   NAME/KEY: primer_bind
;   LOCATION: 15101..15119
;   OTHER INFORMATION: 9-12-48.mis
;   NAME/KEY: primer_bind
;   LOCATION: 15121..15139
;   OTHER INFORMATION: 9-12-48.mis complement
;   NAME/KEY: primer_bind
;   LOCATION: 15177..15195
;   OTHER INFORMATION: 9-12-124.mis
;   NAME/KEY: primer_bind
;   LOCATION: 15197..15215
;   OTHER INFORMATION: 9-12-124.mis complement
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;   LOCATION: 15408..15426
;   OTHER INFORMATION: 9-12-355.mis
;   NAME/KEY: primer_bind
;   LOCATION: 15428..15446
;   OTHER INFORMATION: 9-12-355.mis complement
;   NAME/KEY: primer_bind
;   LOCATION: 15481..15499
;   OTHER INFORMATION: 9-12-428.mis
;   NAME/KEY: primer_bind
;   LOCATION: 15501..15519
;   OTHER INFORMATION: 9-12-428.mis complement
;   NAME/KEY: primer_bind
;   LOCATION: 15844..15862
;   OTHER INFORMATION: 99-14405-105.mis
;   NAME/KEY: primer_bind
;   LOCATION: 15864..15882
;   OTHER INFORMATION: 99-14405-105.mis complement
;   NAME/KEY: primer_bind
;   LOCATION: 17151..17169
;   OTHER INFORMATION: 9-16-189.mis
;   NAME/KEY: primer_bind
;   LOCATION: 17171..17189
;   OTHER INFORMATION: 9-16-189.mis complement
US-09-776-976-7

  Query Match             15.0%;  Score 69;  DB 4;  Length 20966;
  Best Local Similarity   55.6%;  Pred. No. 6.4e-14;
  Matches  183;  Conservative    0;  Mismatches  130;  Indels   16;  Gaps    2;

Qy        145 CCCATCCCATTTGATGAGATTCTGTACAATAGGCAGCAGCATTACGACCCAAGATCTGGT 204
              ||||| |  |||    ||||  | ||||||  |||  | || || ||       |||||
Db      16447 CCCATTCGCTTTACCAAGATCTTCTACAATCAGCAAAACCACTATGATGGCTCCACTGGT 16506

Qy        205 ATCTTTACCTGTAAGATCCCAGGCATATACTATTTCTCCTACCACGTGCATGTGAAAGGG 264
              |  ||   ||| || || || || | ||||| ||  |||||||| |    ||  |   |
Db      16507 AAATTCCACTGCAACATTCCTGGGCTGTACTACTTTGCCTACCACATCACAGTCTATATG 16566

Qy        265 ACTCACGTTTGGGTAGGCCTGTATAAGAACGGCA------------CACGTATGATGAG 311
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Db      16567 AAGGATGTGAAGGTCAGCCTCTTCAAGAAGGACAAGGCTATGCTCTTCACCTATGATCAG 16626

Qy        312 TACAGCAAAGGCTACCTGGATCAGGCTTCAGGGAGTGCAATCATGGAGCTCACAGAAAAT 371
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Db      16627 TACCAGGAAAATAATGTGGACCAGGCCTCCGGCTCTGTGCTCCTGCATCTGGAGGTGGGC 16686

Qy        372 GACCAGGTATGGCTCCAATTG---CCCAATGCAGAATCAAACGGCCTCTACTCCTCTGAG 428
              ||||| || |||||||||  ||       | | |||    || || |||||   |  | |
Db      16687 GACCAAGTCTGGCTCCAGGTGTATGGGGAAGGAGAGCGTAATGGACTCTATGCTGATAAT 16746

Qy        429 TACGTCCACTCGTCCTTCTCAGGATTCCT 457
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Db      16747 GACAATGACTCCACCTTCACAGGCTTTCT 16775


RESULT 12
US-09-909-547-7
; Sequence 7, Application US/09909547
; Patent No. 6579852
; GENERAL INFORMATION:
;  APPLICANT: Fruebis, Joachim
;  APPLICANT:  Erickson, Mary Ruth
;  APPLICANT:  Yen, Frances
;  APPLICANT:  Bihain, Bernard
;  TITLE OF INVENTION: OBG3 Globular Head and Uses Thereof for Decreasing Body Mass
;  FILE REFERENCE: 76.US6.CIP
;  CURRENT APPLICATION NUMBER: US/09/909,547
;  CURRENT FILING DATE:  2001-07-19
;  PRIOR APPLICATION NUMBER: US 09/776,976
;  PRIOR FILING DATE: 2001-02-05
;  PRIOR APPLICATION NUMBER: US 09/758,055
;  PRIOR FILING DATE: 2001-01-10
;  PRIOR APPLICATION NUMBER: US 60/299,881
;  PRIOR FILING DATE: 2000-09-01
;  PRIOR APPLICATION NUMBER: US 60/198,087
;  PRIOR FILING DATE: 2000-04-13
;  PRIOR APPLICATION NUMBER: US 60/176,228
;  PRIOR FILING DATE: 2000-01-14
;  NUMBER OF SEQ ID NOS: 7
;  SOFTWARE: Patent.pm
; SEQ ID NO 7
;   LENGTH: 20966
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: 1..4811
;   OTHER INFORMATION: 5' regulatory region
;   NAME/KEY: exon
;   LOCATION: 4812..4851
;   OTHER INFORMATION: exon 1
;   NAME/KEY: exon
;   LOCATION: 15144..15365
;   OTHER INFORMATION: exon 2
;   NAME/KEY: exon
;   LOCATION: 16277..20559
;   OTHER INFORMATION: exon 3
;   NAME/KEY: misc_feature
;   LOCATION: 20560..20966
;   OTHER INFORMATION: 3' regulatory region
;   NAME/KEY: allele
;   LOCATION: 3787
;   OTHER INFORMATION: 9-27-261 : polymorphic base G or C
;   NAME/KEY: allele
;   LOCATION: 11118
;   OTHER INFORMATION: 99-14387-129 : polymorphic base A or C
;   NAME/KEY: allele
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;   NAME/KEY: allele
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;   OTHER INFORMATION: 99-14405-105 : polymorphic base A or G
;   NAME/KEY: allele
;   LOCATION: 17170
;   OTHER INFORMATION: 9-16-189 : polymorphic base deletion of A
;   NAME/KEY: primer_bind
;   LOCATION: 3528..3545
;   OTHER INFORMATION: 9-27.pu
;   NAME/KEY: primer_bind
;   LOCATION: 3928..3946
;   OTHER INFORMATION: 9-27.rp complement
;   NAME/KEY: primer_bind
;   LOCATION: 10990..11008
;   OTHER INFORMATION: 99-14387.pu
;   NAME/KEY: primer_bind
;   LOCATION: 11423..11442
;   OTHER INFORMATION: 99-14387.rp complement
;   NAME/KEY: primer_bind
;   LOCATION: 15073..15092
;   OTHER INFORMATION: 9-12.pu
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;   OTHER INFORMATION: 9-12.rp complement
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; LOCATION: 16191..16211
; OTHER INFORMATION: 99-14405.rp complement
; NAME/KEY: primer_bind
; LOCATION: 16982..17001
; OTHER INFORMATION: 9-16.pu
; NAME/KEY: primer_bind
; LOCATION: 17384..17402
; OTHER INFORMATION: 9-16.rp complement
; NAME/KEY: misc_binding
; LOCATION: 3775..3799
; OTHER INFORMATION: 9-27-261.probe
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; OTHER INFORMATION: 99-14387-129.probe
; NAME/KEY: misc_binding
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; OTHER INFORMATION: 9-12-48.probe
; NAME/KEY: misc_binding
; LOCATION: 15184..15208
; OTHER INFORMATION: 9-12-124.probe
; NAME/KEY: misc_binding
; LOCATION: 15415..15439
; OTHER INFORMATION: 9-12-355.probe
; NAME/KEY: misc_binding
; LOCATION: 15488..15512
; OTHER INFORMATION: 9-12-428.probe
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; OTHER INFORMATION: 99-14405-105.probe
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; NAME/KEY: primer_bind
; LOCATION: 3768..3786
; OTHER INFORMATION: 9-27-261.mis
; NAME/KEY: primer_bind
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; NAME/KEY: primer_bind
; LOCATION: 11119..11137
; OTHER INFORMATION: 99-14387-129.mis complement
; NAME/KEY: primer_bind
; LOCATION: 15101..15119
; OTHER INFORMATION: 9-12-48.mis
; NAME/KEY: primer_bind
; LOCATION: 15121..15139
; OTHER INFORMATION: 9-12-48.mis complement
; NAME/KEY: primer_bind
; LOCATION: 15177..15195
; OTHER INFORMATION: 9-12-124.mis
; NAME/KEY: primer_bind
; LOCATION: 15197..15215
; OTHER INFORMATION: 9-12-124.mis complement
; NAME/KEY: primer_bind
; LOCATION: 15408..15426
; OTHER INFORMATION: 9-12-355.mis
; NAME/KEY: primer_bind
; LOCATION: 15428..15446
; OTHER INFORMATION: 9-12-355.mis complement
; NAME/KEY: primer_bind
; LOCATION: 15481..15499
; OTHER INFORMATION: 9-12-428.mis
; NAME/KEY: primer_bind
; LOCATION: 15501..15519
; OTHER INFORMATION: 9-12-428.mis complement
; NAME/KEY: primer_bind
; LOCATION: 15844..15862
; OTHER INFORMATION: 99-14405-105.mis
; NAME/KEY: primer_bind
; LOCATION: 15864..15882
; OTHER INFORMATION: 99-14405-105.mis complement
; NAME/KEY: primer_bind
; LOCATION: 17151..17169
; OTHER INFORMATION: 9-16-189.mis
; NAME/KEY: primer_bind
; LOCATION: 17171..17189
; OTHER INFORMATION: 9-16-189.mis complement
US-09-909-547-7

Query Match 15.0%; Score 69; DB 4; Length 20966;
Best Local Similarity 55.6%; Pred. No. 6.4e-14;
Matches 183; Conservative 0; Mismatches 130; Indels 16; Gaps 2;

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Qy      145 CCCATCCCATTTGATGAGATTCTGTACAATAGGCAGCAGCATTACGACCCAAGATCTGGT 204
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Db    16447 CCCATTCGCTTTACCAAGATCTTCTACAATCAGCAAAACCACTATGATGGCTCCACTGGT 16506

Qy      205 ATCTTTACCTGTAAGATCCCAGGCATATACTATTTCTCCTACCACGTGCATGTGAAAGGG 264
            |  ||   ||| || || || ||  | ||||| ||  |||||||| |   ||  |  |
Db    16507 AAATTCCACTGCAACATTCCTGGGCTGTACTACTTTGCCTACCACATCACAGTCTATATG 16566

Qy      265 ACTCACGTTTGGGTAGGCCTGTATAAGAACGGCA----------CACGTATGATGAG 311
            |   | ||   |||  |||| |  ||||| | ||               ||| |||||| ||
Db    16567 AAGGATGTGAAGGTCAGCCTCTTCAAGAAGGACAAGGCTATGCTCTTCACCTATGATCAG 16626

Qy      312 TACAGCAAAGGCTACCTGGATCAGGCTTCAGGGAGTGCAATCATGGAGCTCACAGAAAAT 371
            |||    ||     |  |||| ||||| || ||   ||   || || | ||    |
Db    16627 TACCAGGAAAATAATGTGGACCAGGCCTCCGGCTCTGTGCTCCTGCATCTGGAGGTGGGC 16686

Qy      372 GACCAGGTATGGCTCCAATTG---CCCAATGCAGAATCAAACGGCCTCTACTCCTCTGAG 428
            ||||| || |||||||  ||      | | |||   || || ||||  |  | |
Db    16687 GACCAAGTCTGGCTCCAGGTGTATGGGGAAGGAGAGCGTAATGGACTCTATGCTGATAAT 16746

Qy      429 TACGTCCACTCGTCCTTCTCAGGATTCCT 457
            ||    ||||  ||||| |||| || ||
Db    16747 GACAATGACTCCACCTTCACAGGCTTTCT 16775
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RESULT 13
US-09-569-852B-1
; Sequence 1, Application US/09569852B
; Patent No. 6582909
; GENERAL INFORMATION:
; APPLICANT: Bougueleret, Lydie
; APPLICANT: Bihain, Bernard
; APPLICANT: Denison, Blake
; APPLICANT: Yen-Potin, Frances
; TITLE OF INVENTION: APM1 Biallelic Markers and Uses Thereof
; FILE REFERENCE: GEN-T113XC2
; CURRENT APPLICATION NUMBER: US/09/569,852B
; CURRENT FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: PCT/IB99/01858
; PRIOR FILING DATE: 1999-11-04
; PRIOR APPLICATION NUMBER: US 09/434,848
; PRIOR FILING DATE: 1999-11-04
; PRIOR APPLICATION NUMBER: US 60/119,593
; PRIOR FILING DATE: 1999-02-10
; PRIOR APPLICATION NUMBER: US 60/107,113
; PRIOR FILING DATE: 1998-11-04
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 20966
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(4811)
; OTHER INFORMATION: 5' regulatory region
; NAME/KEY: primer_bind
; LOCATION: (14683)..(14701)
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; NAME/KEY: primer_bind

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; LOCATION: (15428)..(15446)
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; NAME/KEY: primer_bind
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; LOCATION: (15681)..(15699)
; OTHER INFORMATION: 17-36-47.mis complement
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; LOCATION: (15791)..(15809)
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; OTHER INFORMATION: 99-14405-105.mis
; NAME/KEY: primer_bind
; LOCATION: (15864)..(15882)
; OTHER INFORMATION: 99-14405-105.mis complement
; NAME/KEY: primer_bind
; LOCATION: (17151)..(17169)
; OTHER INFORMATION: 9-16-189.mis
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; LOCATION: (17171)..(17189)
; OTHER INFORMATION: 9-16-189.mis complement
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; LOCATION: (17810)..(17828)
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; LOCATION: (17830)..(17848)
; OTHER INFORMATION: 17-37-629.mis complement
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; LOCATION: (17992)..(18010)
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; LOCATION: (18012)..(18030)
; OTHER INFORMATION: 17-37-811.mis complement
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; LOCATION: (18470)..(18488)
; OTHER INFORMATION: 17-38-349.mis
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; LOCATION: (18490)..(18508)
; OTHER INFORMATION: 17-38-349.mis complement
; NAME/KEY: primer_bind
; LOCATION: (926)..(944)
; OTHER INFORMATION: 17-30-216.mis
; NAME/KEY: primer_bind
; LOCATION: (946)..(964)
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; OTHER INFORMATION: 9-27-211.mis
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; LOCATION: (3739)..(3757)
; OTHER INFORMATION: 9-27-211.mis complement
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; LOCATION: (3774)..(3792)
; OTHER INFORMATION: 9-27-246.mis complement
; NAME/KEY: primer_bind
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; OTHER INFORMATION: 17-31-413.mis complement
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; LOCATION: (5364)..(5385)
; OTHER INFORMATION: 17-31.rp complement
; NAME/KEY: primer_bind
; LOCATION: (10618)..(10636)
; OTHER INFORMATION: 17-32-24.mis
; NAME/KEY: primer_bind
; LOCATION: (10638)..(10656)
; OTHER INFORMATION: 17-32-24.mis complement
; NAME/KEY: primer_bind
; LOCATION: (11020)..(11038)
; OTHER INFORMATION: 99-14387-50.mis
; NAME/KEY: primer_bind
; LOCATION: (11040)..(11058)
; OTHER INFORMATION: 99-14387-50.mis complement
; NAME/KEY: primer_bind
; LOCATION: (11099)..(11117)
; OTHER INFORMATION: 99-14387-129.mis
; NAME/KEY: primer_bind
; LOCATION: (11119)..(11137)
; OTHER INFORMATION: 99-14387-129.mis complement
; NAME/KEY: primer_bind
; LOCATION: (11169)..(11187)
; OTHER INFORMATION: 99-14387-199.mis

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;   NAME/KEY: primer_bind
;   LOCATION: (11189)..(11207)
;   OTHER INFORMATION: 99-14387-199.mis complement
;   NAME/KEY: primer_bind
;   LOCATION: (13954)..(13972)
;   OTHER INFORMATION: 17-33-TGAGACT.mis
;   NAME/KEY: primer_bind
;   LOCATION: (13974)..(13992)
;   OTHER INFORMATION: 17-33-TGAGACT.mis complement
;   NAME/KEY: exon
;   LOCATION: (4812)..(4851)
;   OTHER INFORMATION:
;   NAME/KEY: exon
;   LOCATION: (15144)..(15365)
;   OTHER INFORMATION:
;   NAME/KEY: exon
;   LOCATION: (16277)..(20559)
;   OTHER INFORMATION:
;   NAME/KEY: misc_feature
;   LOCATION: (20560)..(20966)
;   OTHER INFORMATION: 3' regulatory region

  Query Match             15.0%;  Score 69;  DB 4;  Length 20966;
  Best Local Similarity   55.6%;  Pred. No. 6.4e-14;
  Matches  183;  Conservative    0;  Mismatches  130;  Indels   16;  Gaps    2;

Qy        145 CCCATCCCATTTGATGAGATTCTGTACAATAGGCAGCAGCATTACGACCCAAGATCTGGT 204
              ||||| |  |||    ||||  | ||||||  |||  | || || ||        |||||
Db      16447 CCCATTCGCTTTACCAAGATCTTCTACAATCAGCAAAACCACTATGATGGCTCCACTGGT 16506

Qy        205 ATCTTTACCTGTAAGATCCCAGGCATATACTATTTCTCCTACCACGTGCATGTGAAAGGG 264
              |  ||   ||| || || || ||  | ||||| ||  |||||||| |    ||  |   |
Db      16507 AAATTCCACTGCAACATTCCTGGGCTGTACTACTTTGCCTACCACATCACAGTCTATATG 16566

Qy        265 ACTCACGTTTGGGTAGGCCTGTATAAGAACGGCA------------CACGTATGATGAG 311
              |   | ||   |||  |||| |  ||||| | ||           ||| ||||| ||
Db      16567 AAGGATGTGAAGGTCAGCCTCTTCAAGAAGGACAAGGCTATGCTCTTCACCTATGATCAG 16626

Qy        312 TACAGCAAAGGCTACCTGGATCAGGCTTCAGGGAGTGCAATCATGGAGCTCACAGAAAAT 371
              |||    ||    | |||| ||||| || ||   ||   || || | ||     |
Db      16627 TACCAGGAAAATAATGTGGACCAGGCCTCCGGCTCTGTGCTCCTGCATCTGGAGGTGGGC 16686

Qy        372 GACCAGGTATGGCTCCAATTG---CCCAATGCAGAATCAAACGGCCTCTACTCCTCTGAG 428
              ||||| || |||||||  ||       | | |||    || || |||||  |   | |
Db      16687 GACCAAGTCTGGCTCCAGGTGTATGGGGAAGGAGAGCGTAATGGACTCTATGCTGATAAT 16746

Qy        429 TACGTCCACTCGTCCTTCTCAGGATTCCT 457
               ||    ||||  ||||| |||| || ||
Db      16747 GACAATGACTCCACCTTCACAGGCTTTCT 16775


RESULT 14
US-09-140-804-10
; Sequence 10, Application US/09140804
; Patent No. 6197930
; GENERAL INFORMATION:
;  APPLICANT: Sheppard, Paul O.
;  APPLICANT: Humes, Jacqueline M.
;  TITLE OF INVENTION: ADIPOCYTE-SPECIFIC PROTEIN HOMOLOGS
;  FILE REFERENCE: 97-49
;  CURRENT APPLICATION NUMBER: US/09/140,804
;  CURRENT FILING DATE: 1998-08-26
;  EARLIER APPLICATION NUMBER: 60/056,983
;  EARLIER FILING DATE: 1997-08-26
;  NUMBER OF SEQ ID NOS: 47
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
;   LENGTH: 729
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Degenerate nucleotide sequence encoding the zsig39
;   OTHER INFORMATION: polypeptide of SEQ ID NO:2.
US-09-140-804-10

  Query Match             14.6%;  Score 66.8;  DB 3;  Length 729;
  Best Local Similarity   34.4%;  Pred. No. 6.3e-14;
  Matches  123;  Conservative   52;  Mismatches  167;  Indels   16;  Gaps    1;

Qy        118 TCTAAAGCTTACCCAGCAGTAGGTGCCCCCATCCCATTTGATGAGATTCTGTACAATAGG 177
              :: :  |      ||  |     | :|| ||  | || ||:||:     | :|    ||:  :
Db      337 WSNMGNGTNCCNCCNCCNWSNGAYGCNCCNYTNCCNTTYGAYMGNGTNYTNGTNAAYGAR 396

Qy        178 CAGCAGCATTACGACCCAAGATCTGGTATCTTTACCTGTAAGATCCCAGGCATATACTAT 237
              ||:   ||:||:||: |     | || |  ||:|| ||: |: | || ||  | ||:||:
Db      397 CARGGNCAYTAYGAYGCNGTNACNGGNAARTTYACNTGYCARGTNCCNGGNGTNTAYTAY 456

Qy        238 TTCTCCTACCACGTGCATGTGAAAGGGACTCACGTTTGGGTAGGCCTGTATAAGAACGGC 297
              ||: |    ||:|     ||  |  |  |     |   : | | ::|    ||:||:||
Db      457 TTYGCNGTNCAYGCNACNGTNTAYMGNGCNWSNYTNCARTTYGAYYTNGTNAARAAYGGN 516

Qy        298 ACACGTATGATGAGTACAGCAAAGGCTACCTGGATCAGGC---------------TTCA 341
                : : ||    ::        |:  :  : |      |||                ::
Db      517 GARWSNATHGCNWSNTTYTTYCARTTYTTYGGNGGNTGGCCNAARCCNGCNWSNYTNWSN 576

Qy        342 GGGAGTGCAATCATGGAGCTCACAGAAAATGACCAGGTATGGCTCCAATTGCCCAATGCA 401
              ||  | || ||  |    :|   :     | ||:||:|| ||| | ||: |        |
Db      577 GGNGGNGCNATGGTNMGNYTNGARCCNGARGAYCARGTNTGGGTNCARGTNGGNGTNGGN 636

Qy        402 GAATCAAACGGCCTCTACTCCTCTGAGTACGTCCACTCGTCCTTCTCAGGATTCCTAG 459
              || |  | :||  |:||: | ::      |      |:::  | ||::: || ||::| |
Db      637 GAYTAYATHGGNATHTAYGCNWSNATHAARACNGAYWSNACNTTYWSNGGNTTYYTNG 694


RESULT 15
US-09-686-838B-10
; Sequence 10, Application US/09686838B
; Patent No. 6482612
; GENERAL INFORMATION:
;  APPLICANT: Sheppard, Paul O.
;  APPLICANT:  Humes, Jacqueline M.
;  TITLE OF INVENTION: Adipocyte-Specific Protein Homologs
;  FILE REFERENCE: 97-49D1
;  CURRENT APPLICATION NUMBER: US/09/686,838B
;  CURRENT FILING DATE:  2000-10-10
;  PRIOR APPLICATION NUMBER: US 09/140,804
;  PRIOR FILING DATE: 1998-08-26
;  PRIOR APPLICATION NUMBER: US 60/056,983
;  PRIOR FILING DATE: 1997-08-26
;  NUMBER OF SEQ ID NOS: 50
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10
;   LENGTH: 729
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Degenerate nucleotide sequence encoding the zsig39
;   OTHER INFORMATION: polypeptide of SEQ ID NO:2.
;   FEATURE:
;   NAME/KEY: variation
;   LOCATION: (1)...(729)
;   OTHER INFORMATION: n is any nucleotide
US-09-686-838B-10

  Query Match             14.6%;  Score 66.8;  DB 4;  Length 729;
  Best Local Similarity   34.4%;  Pred. No. 6.3e-14;
  Matches  123;  Conservative   52;  Mismatches  167;  Indels   16;  Gaps    1;

Qy        118 TCTAAAGCTTACCCAGCAGTAGGTGCCCCCATCCCATTTGATGAGATTCTGTACAATAGG 177
              :: :  |      ||  |     | :|| ||  | || ||:||:     | :|    ||:  :
Db      337 WSNMGNGTNCCNCCNCCNWSNGAYGCNCCNYTNCCNTTYGAYMGNGTNYTNGTNAAYGAR 396

Qy        178 CAGCAGCATTACGACCCAAGATCTGGTATCTTTACCTGTAAGATCCCAGGCATATACTAT 237
              ||:   ||:||:||: |     | || |  ||:|| ||: |: | || ||  | ||:||:
Db      397 CARGGNCAYTAYGAYGCNGTNACNGGNAARTTYACNTGYCARGTNCCNGGNGTNTAYTAY 456
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Search completed: July 20, 2004, 21:16:42
Job time : 68 secs

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